

82371.revisedsequence

Sequence listing

<110> Epigenomics AG

<120> Method for amplification of nucleic acids of low complexity

<130> E01/1386/WO

<160> 160

<210> 1

<211> 322

<212> DNA

<213> Artificial Sequence

<220>

<223> Bisulfite converted DNA (ID 2025 of Example)

<400> 1

aatcctccaa	attctaaaaa	cataaaaaata	acgcaaccca	aaaacaaaaa	acccctccgc	60
ccattaatta	ctatacacta	acgaaacttt	cccgaaccac	aacgacgaaa	ataaaaaaca	120
tcgctaacgc	taaaaaacat	caaaaaacact	acccaaccca	aatatcgccg	ccgcttccac	180
aaaactctac	taaacgccgc	cgccgccgct	accaccgcct	ctaataccaa	ccacctcccg	240
ccaaataaac	cccgaatcc	taactcaaat	atatatctct	ccctccctct	ccctccattc	300
gtcattttct	cactcccttt	cc				322

<210> 2

<211> 413

<212> DNA

<213> Artificial Sequence

<220>

<223> Bisulfite converted DNA (ID 2044 of Example)

<400> 2

ggataggagt	tgggattaag	attttcggtt	agtttcgtat	tttttcgtat	tttttagtat	60
cgtttcgtat	ttttcgtatt	ttttttcggg	ttattacgtt	ttttatgtga	ttcgtttggg	120
taacgtcgaa	tttagtcgcg	tagcgttgta	gtgaattttt	tttttaaatt	gtaataagtc	180
gttttttaag	gtaattacgt	tttttttgtt	ttttttttaa	aaaataaaaa	taaaaaattt	240
atagaaaaaa	attcgcgagt	ttagaaaaaa	gaagtaattg	gtagaagggt	ttaattaagg	300
taaagagttg	taaggcgag	ttaagaaaaa	gtagggtatt	aaaaaatgta	ggtaattttt	360
ataagggttt	ttggggagag	gtatatagag	ggatttttgt	gttgaaaaag	att	413

<210> 3

<211> 347

<212> DNA

<213> Artificial Sequence

<220>

<223> Bisulfite converted DNA (ID 2045 of Example)

<400> 3

aaccctttct	tcaaattaca	aaccttctta	ccttcaaacc	tcgactccaa	caccaatccg	60
acaaaaaac	ccaatcta	aaaatacgct	cccttcctac	catttcttat	tccattaacc	120
tatttcgtaa	taaacgtaaa	actaatcctc	caaaattacc	ttattaatta	acttacatat	180
ttattatcta	tctatccac	caaaatacaa	atttccgaaa	aacaaaaatt	taaaaaaatc	240
tattttattc	tatataattt	tcccatacca	aacaccgtac	ccgacacaaa	ctaaaatccc	300
aatacacatc	tcgaaacgaa	aaaaccgtat	ttccctaata	cccaatc		347

<210> 4

82371.revisedsequence

<211> 283
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Bisulfite converted DNA (ID 2106 of Example)

<400> 4

ttgaaaataa	gaaagggttg	ggtagagagg	ataatatagt	tttagtttat	tttttagtat	60
tttgtaatt	ttttttaatt	tttagttata	aattcgagat	ataacgtttt	ttttttaaag	120
aggtcgcgtt	ttttttgtgg	tggttttttag	ggatttcgttt	tagttttttt	ttcgttttta	180
gttttatata	ttgggattat	taggtattta	agattttatt	ttttaggtgg	tattttttagc	240
gtagggttggt	atttagtttt	tttttaggga	tttggggtag	aag		283

<210> 5
 <211> 211
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Bisulfite converted DNA (ID 2166 of Example)

<400> 5

tgtttgggat	tgggtagggg	tatcgggggt	gggggggcgg	ggtttggtgg	taaggcgggc	60
ggaggcgtag	atttttcgtt	cgatgatagg	ggtggaggag	gaaggggcgg	gttgaagaag	120
gggaaggtag	gaagagtta	gtcgggggta	taaattgggt	gaagcggtga	ggtttttagta	180
ttttcgtttg	aggagatagg	taaaggttat	g			211

<210> 6
 <211> 497
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Bisulfite converted DNA (ID 2188 of Example)

<400> 6

tttttagattg	aggtttttagg	gttaaaggat	tatttttttt	tttagcggtg	gttcgggaaa	60
ggtaagtttc	gggcgggagc	gtacgtcgcg	ttttcgaagt	ttggtttttt	cgttacgttt	120
attttttggt	tttatttcgc	gttttttttag	gttttttttc	ggtgaaatcg	atgttttggt	180
agttttttat	tttgcgtttt	cggtcgcggt	tcgggttttt	cgtaaagtcg	ttgttatttc	240
ggagggttta	gttagcgggt	tttcggagggt	tggtcgggta	ggcgtgggtc	gcggtaggag	300
ttgggcgcgt	acggttatcg	cgcgtaggag	agatatgtgt	ttgtcgcgat	gggggttcgg	360
ggcgtttttt	tacgtcgtag	gtaagcgggg	cggcgggtgc	ggtatttggt	tatcgggagt	420
tttttttttt	tttttttggt	gttggtgttt	tgtatttagt	tcgggggagg	atagaagaaa	480
aaggaggtag	aatggat					497

<210> 7
 <211> 373
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Bisulfite converted DNA (ID 2191 of Example)

<400> 7

ggaggggaga	gggttatgag	attttatttt	tggttagggg	cggggagggt	tttgtttttc	60
gggagttttg	ttcgggtttt	ttgggtcgtag	gggttggtggg	ttttaggtag	gaacgagagg	120
gtgagggtta	tatgtggttc	ggcgggtttag	ggcgggtttgt	agcgttttta	ttgtttcggt	180

82371.revisedsequence

tgttaggggt	tgcggcgacg	cggtagtta	gtagcgagtt	taggtcgcgt	agattttatt	240
gatgagtttt	gatttttagt	attttttta	agttaagaag	agtttagcgt	atttttcgg	300
tgttttattt	tagttttttt	gttttagttt	tttagtttta	ttttttttcg	ttttgttttg	360
gggtgtgtat	agt					373

<210> 8
 <211> 368
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Bisulfite converted DNA (ID 2194 of Example)

<400> 8

ttttgggaat	gggttgtatc	gagaggttcg	attagtttta	gggttttagt	gagggggtag	60
tggaaatttag	cgagggattg	agagttttat	agtatgtacg	agtttgatgt	tagagaaaaa	120
gtcgggagat	aaaggagtcg	cgtgttatta	aattgtcgtc	gtagtcgtag	ttatttaagt	180
gtcggatttt	tgagtatttt	gcgttttttag	ttttcggata	gaagttggag	aatttttttg	240
gagaattttt	cgagtttagga	gacgagattt	tttaataatt	attatttttt	tttgcgtttt	300
ttatttgtcg	ttcgttgga	ttaaaccgatag	ttatagtttt	tttgacgata	ggatggaggt	360
taagggtta						368

<210> 9
 <211> 352
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Bisulfite converted DNA (ID 2212 of Example)

<400> 9

ttgttgggag	tttttaagtt	ttgtgagaat	tttgggagtt	ggtgatgtta	gattagttgg	60
gttatttgaa	ggtagtagt	tcgggtaggg	tttatcgaaa	gtttattcgt	atatattagg	120
taatttaatt	ttttattttg	tgtgatagaa	gtagtaggaa	gtgagttgtt	tagaggtagg	180
aggggtttatt	ttttgttaaa	gggggggatta	gaattttttt	atgcgagttg	tttgaggatt	240
gggatgtcga	gaacgcgagc	gatttcgagta	gggtttgttt	gggtatcgtc	ggggtaggat	300
tcggaacgta	ttcgggaagg	tttttctaag	tattttatttg	gaaggagaat	tt	352

<210> 10
 <211> 295
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Bisulfite converted DNA (ID 2267 of Example)

<400> 10

gtaatttgaa	gaaagttgag	gggaggcgg	agatgttttg	atttattagg	gaaaacgtgg	60
acgttttttg	ttgttatatt	gtgaattgtg	tgtatttagt	tatttttgag	taaatatttg	120
gagcgaggaa	tttttgagt	gtgtgggagg	gcggtgaggg	gtagttgaaa	gtcgggttaa	180
gttttcggag	gggttggttt	aggaaatatg	attggtagtt	acgagagagt	taggggttgg	240
acgtcgagg	gagggagaag	gttttcgggc	ggagagaggt	tttgtttagt	tgttg	295

<210> 11
 <211> 278
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Bisulfite converted DNA (ID 2317 of Example)

82371.revisedsequence

<400> 11

ggagttgtat	tgttgggaga	tttgggtgta	gatgatggg	atgttaggat	tattcgaatt	60
taaagttgaa	cgtttaggta	gaggagtga	gttttgggga	attttgagtc	ggtttaaagc	120
gtattttttt	gtatatttat	tcggtgttgg	gcgtagggaa	tttttgaaat	aaaagatgta	180
taaagtattg	aggtttgaga	tttttggatt	tcgaaatatt	gagaatttat	agttgtatat	240
tttagagttt	atggtatttt	agtgaataatt	ggggtttt			278

<210> 12

<211> 285

<212> DNA

<213> Artificial Sequence

<220>

<223> Bisulfite converted DNA (ID 2383 of Example)

<400> 12

tttgtattag	gttggaaagt	gtcgttagtt	tttcgtgtaa	ttttattttt	tggaaaagt	60
gaattagttg	gtattgttta	gcgtgatttg	tgaggttgag	ttttaatagt	ttaaagaagt	120
aaatgggatg	ttattttcgc	ggggttcgtt	tttcgcgagg	tgtttatttc	gtatttgta	180
tgtaaaacga	gggagcgtta	ggaaggaatt	cgttttgtaa	agttattggt	tttggttatt	240
agtttttatt	taatgttttc	gtgatgttgt	tgttgattta	tttgg		285

<210> 13

<211> 380

<212> DNA

<213> Artificial Sequence

<220>

<223> Bisulfite converted DNA (ID 2387 of Example)

<400> 13

gatttttgga	gaggaagtta	agtgtttttt	tgtttttttt	cggtatttta	tttaaggcga	60
ttagtttaga	attggttttc	ggaagcgttc	gggtaaagat	tgcaagaag	aaaagatatt	120
tggcggaat	ttgtgcgttt	ggggcggttg	aattcgggga	ggagagggag	ggattagata	180
ggagagtggg	gattattttt	tttgttttta	aattggggta	gttttttggg	ttttcgattt	240
ttttattttc	gtgggtaaaa	aattttgttt	ttatcgggtt	tacgtaattt	ttttaagggg	300
agaggagggg	aaaattttgtg	gggggtacga	aaaggcgga	agaaatagtt	atttcgttat	360
atgggttttg	tttttagttt					380

<210> 14

<211> 397

<212> DNA

<213> Artificial Sequence

<220>

<223> Bisulfite converted DNA (ID 2391 of Example)

<400> 14

tggggttagt	ttaggatagg	cgttcggggg	acgcgtgttt	ttattttacg	gggacggtgg	60
aggagagtta	gagaggggtt	gaggggtagg	tatttttaacg	aatgggtttt	ttggtgtttt	120
ttgcgtttcg	tcggtttatt	ttttttttta	taaaacgggt	ttagttttta	gtattttatt	180
ttcgttatta	attaggtatt	tcgggagatt	agttcgttcg	aaagtttttg	cgttatttcg	240
cgggtttttt	taggtgggtt	tttttagttt	gttttttttc	gggatgtttg	ttgattattt	300
cgagtttcgc	tggcgtaaga	gtacgagcgt	cgagttcgtg	cgcgttaagg	ttgcgtgggc	360
gggtatcga	ttttttgaga	agtttttagt	tttttaa			397

<210> 15

<211> 547

82371.revisedsequence

<212> DNA

<213> Artificial Sequence

<220>

<223> Bisulfite converted DNA (ID 2395 of Example)

<400> 15

tttttgatt	ggggtaggtt	tcggtaggtg	tatgggagga	agtacggaga	atttataagt	60
ttttcgattt	tttagtttag	acgttggttg	gtttttttcg	ttggagatcg	cgtttttttt	120
aaatttttgt	gagcgttgcg	gaagtacgcg	gggttcgggt	cgttgagcgt	tgtaagatag	180
gggagggagt	cgggcgggag	agggaggggc	ggcgtcgggg	cgggttttga	tatagagtag	240
gcgtcgcggg	tcgtagtata	gtcggagatc	gtagtccgga	gttcgggtta	gggtttattt	300
gttttcgtag	cgtcggttcg	cgtttttttg	tcgtagtatt	cggtgagtgt	cgcggttttg	360
agattttcgg	gtcggatgcg	cggcggtttt	agttttcgag	cgtttggttg	tttcggtttg	420
ggttgttcgg	gttttttggg	tttttcggcg	gttgtagcga	gttaaggcgt	ttcgtttcgg	480
gcgtttttcg	cgggtgtcga	tttaggttgt	tcggagttcg	gagtttatag	aggagagaga	540
tagttgg						547

<210> 16

<211> 414

<212> DNA

<213> Artificial Sequence

<220>

<223> Bisulfite converted DNA (ID 2401 of Example)

<400> 16

attagaagtg	aaagtaatgg	aatttcgatg	taaatataat	attatttttt	tgtagagtta	60
ttttgagtat	aataaatttg	aattgtgtta	atggtgggag	aaaaaattta	aaagaagaac	120
ggagcgaata	gtagtttttt	cgttcgttga	ttagaaatag	taggacgata	ttttttcgat	180
tggaggagag	cgtttgcgtt	cgtatttagt	tggcgttcgt	ttttttgttt	tttttttagt	240
cgtttttttt	tttttttttc	gcgttttagt	tattcgggaa	ggtattgcgg	tagttgggtt	300
ttgattgggt	gttttgaaag	tttacgggtt	attcgaattg	tgaattcggg	gttttttagc	360
gcggtgagtt	tgaaattggt	cgtatttggt	tttaaagttg	gttttttgaa	attg	414

<210> 17

<211> 272

<212> DNA

<213> Artificial Sequence

<220>

<223> Bisulfite converted DNA (ID 2453 of Example)

<400> 17

gggatgggtt	attagttgta	aatcgtggaa	ttttttttga	tataatgaaa	agatgagggt	60
gtataagttt	tttagtaggg	tgatgatata	aaaagttaac	ggagtatttt	ataagggtata	120
aattttttaga	gatagtagag	tatataagtt	tttaggataa	gagttaggaa	gaaattatcg	180
gaaggaatta	ttttattgtg	tgtaaatatg	atttttaagt	tggtcgtggt	ttttttggta	240
gtttttttga	ttttttagt	tttgtgtgaa	gg			272

<210> 18

<211> 391

<212> DNA

<213> Artificial Sequence

<220>

<223> Bisulfite converted DNA (ID 2484 of Example)

<400> 18

82371.revisedsequence

taattgaagg	ggtaaatagt	ggaatttggg	tgggtgtttg	ttaaattttt	ttttttgggt	60
ttgttttggg	tttttttttg	aagggatttt	ttttcgtttt	tgtaataaga	ttttttataa	120
agtatagatt	ttttatttta	tttcgcggta	tttgtatcgg	gttttattgg	ttttaggagt	180
tgaatatttt	tttaggtata	tataggtggg	atataaataa	gggttttgga	attattattt	240
ttttattacg	atagtaattt	aaaatgtttg	ggaagatggg	cgtgattttt	ggagttttta	300
atatattttg	gataatgttt	gtagtttgta	agttattttt	ttttatttgt	tttaaatggt	360
agtatttaat	tttaggtttg	gttttggttt	t			391

<210> 19

<211> 430

<212> DNA

<213> Artificial Sequence

<220>

<223> Bisulfite converted DNA (ID 2512 of Example)

<400> 19

agtggatttg	gagtttagat	gtaatataat	gattgatatt	ggtatagtat	atttattttg	60
tttttgtaaa	taaaatggta	tatgtgatgt	ttttttttgt	ttttttgtat	ataaaaataa	120
atttgttttt	atttatattg	tatttatgtt	tttattttgt	atgttaggag	ttaagtattt	180
tgtatgtatt	aatttatttt	gtttttataa	taatttttat	atgttaggaat	tattatagtt	240
attttatgaa	tgagtcgagg	aaggatttga	gacgttaagt	aatttgttta	aggttacgta	300
gtagtagaag	gtagagtaa	gaattattat	ggttttataa	gtttaggaaa	aagtttgaaa	360
gaattaaaat	gttaatagcg	gggattttta	ggaagtattg	aagaggttat	gggagaagtt	420
tttattttgt						430

<210> 20

<211> 475

<212> DNA

<213> Artificial Sequence

<220>

<223> Bisulfite converted DNA (ID 2741 of Example)

<400> 20

taggggaaaa	gtagagttg	agaggttggg	gcgcgacgag	tttggatata	gggcggggat	60
ttaagttttt	ttcgtttagt	taataattgt	gtttttttta	ggaaggcgtg	aggaaatggt	120
ttaattaaat	tttgtatttt	ttttttggaa	tttgggttgt	atttttttat	ttattgtaaa	180
ttttataaat	tatttagggg	tttttttagt	gtttgttttt	agcggtttcg	gtgtttattt	240
attagtgttg	tttttttttt	ttcgtaaagt	tgcgtttttag	tttttagttt	ttttttcgcg	300
ggtgtttttt	aaatcgtttt	attatttttcg	ggtttaggga	ggcggaaatcg	tgtttgtttt	360
tcggtttttt	taagaggcgt	cggttttatt	tttttttagag	tcgcgggttg	acgcgagatg	420
atagtaacga	gttcggtatg	tttatgtaaa	taagcgtttt	tttgtgggtt	aatgg	475

<210> 21

<211> 412

<212> DNA

<213> Artificial Sequence

<220>

<223> Bisulfite converted DNA (ID 2745 of Example)

<400> 21

atttttagttt	gtgaaatggg	atttaggatt	taggtagagg	tgcgtttttcg	gtttggggat	60
cgagtatttt	gtgcgttttcg	gtaacgtagg	aagatagcgt	tattgatatt	ttagagatta	120
gcgggtatcg	tttgaggcg	tttttattat	ttggcggttt	cgggttcgcg	ttttatcgcg	180
ttataagatt	tacgttcgaa	ttacgtgatt	agggtcgtgg	tttcgttttcg	ttttcgcgtc	240
gcgcgtcgtt	ttcggtaggg	gcggaaagcg	gaagtgtggg	agggtttgcg	gggcgggttt	300
aggagggttcg	cgggaggatg	gagtagtgag	cgggtttggg	cggttgttgg	tagcgttatg	360
gagacggtat	agttgaggaa	ttcgtcgcggt	cggtagagggg	ttattgggta	ag	412

82371.revisedsequence

<210> 22
 <211> 484
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Bisulfite converted DNA (ID 2746 of Example)

<400> 22

gtgggtttttg	ggtagttata	gaagttatcg	cgttggcggg	gaggaggggg	atcgatgcgg	60
tttatgtttc	gggtagtttt	atTTTTTTTT	tttgCGAagg	gtttttgttc	ggcgggagga	120
gagaggcgcg	ttttattcgg	gtttttttat	atttgcgctc	gtttgggtcg	atttcgcggg	180
tttcgttcgg	cgtttttagtc	gatttttcgtt	tagtttcggg	tttatgggCG	cggttagtag	240
ggcgggttag	ggcggcgggg	cgcgatatcg	ggaggaagtg	cgggtcgttt	gttcgggcgc	300
gttaagggaag	ttgtttaaaa	tgaggaagag	tcgcgggttc	ggcgggtgag	gttatttcgg	360
cggcgggttg	agagcgagga	ggagcgggtg	gtttcgcgtt	gcgttcgttt	tcgttttatt	420
tggcgtaggt	agggtgtggtc	gcgtttttta	ttcggtcggg	atTTTTtgg	aaggagagga	480
ggtt						484

<210> 23
 <211> 476
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Bisulfite converted DNA (ID 2747 of Example)

<400> 23

taggatgggg	agagtaatgt	tttcgagtag	aatagggtgg	ggtttttaga	ttattttttt	60
ttttttatag	ttggttttat	tttatcgatt	ttattaaagt	ttttttggga	gtatttttaga	120
gaagagttac	gtttaggtcg	ggttttgggt	gtttgggtta	cggcgggaatt	tttagtatta	180
cgtttcgtac	gtcgggttta	aagtatgttt	agtgaaggag	taggtattta	ttgttagatg	240
gagttatttt	tttagatttg	gggttttttt	ataacgatgg	ttatgtttgg	tatggaagtt	300
tttttagaag	ttaatagtag	gaaataaggg	ttaatagtat	ttaattgtgg	agtaagggtt	360
aaatttttagt	tttgttattt	aatcgtttcg	aattttgttt	tttattgtag	aggcgaaaag	420
gttaatatta	ttttatttcg	gagggttatc	gtggagaatg	gaagttggat	aagttg	476

<210> 24
 <211> 419
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Bisulfite converted DNA (ID 2749 of Example)

<400> 24

tcccacaaaa	actaaacaat	tattacaaat	tcaaaaaacc	ccgaccaatt	tttcaaaaat	60
ttctcctcct	cttttcccc	taaaactcgt	aatactttta	ctctactttc	aaaatacatt	120
aaatctccta	ctttataact	actttaaaac	caacaaatac	tctaataat	ataattcaaa	180
ttatacaaat	ttcacgaata	aattttaact	tattttttta	attaattaaa	aaacaaataa	240
tattttaaaaa	aatattaact	tataattatt	tcaccctttt	tacttttaaac	atTTTTtatta	300
cttctcgacc	ttttaactaa	aatcaaatat	atacttttaa	cattttttta	aataaaaaata	360
tccttttaaat	ttaataaaaa	aacaaaattc	tacataaaaa	aacccttca	tctaaaacc	419

<210> 25
 <211> 479
 <212> DNA
 <213> Artificial Sequence

82371.revisedsequence

<220>

<223> Bisulfite converted DNA (ID 2751 of Example)

<400> 25

tttggaggggt	ttagtagaag	ttatTTTTtagg	ggaggggttcg	ataggaagga	aggtagggttt	60
gtcggagggg	tatataggag	TTTTTTTT	cgttatagtg	tttaggggta	attgttttag	120
TTTTtaggtt	gggttaatag	gatgggatag	tttaggcgga	aggaaatttg	tggggagggga	180
tatttcgtag	atagaagtag	ggatatgggg	tggggagagg	taggaagagt	tgTCgggttg	240
ttgagttggc	gtttttttag	tagatttagg	aggggcggtg	ataggagggtt	attttttttt	300
tattttcgtg	gttttgggtt	tttttggttt	tggTTaatag	tattattatt	attattattg	360
ttgttggttcg	ttagtttggg	ttttagatat	attagaaaaa	aattatcgga	agatacgtat	420
agtattggta	gttttttaaaa	gaattaattt	tttttttgTg	tttattttgt	gattattgg	479

<210> 26

<211> 484

<212> DNA

<213> Artificial Sequence

<220>

<223> Bisulfite converted DNA (ID 2752 of Example)

<400> 26

atacaacctc	aaatcctatc	caaacccccca	aaacatcaca	ctcgaaactt	attctacata	60
TTTTtacttt	tacctccac	taataactaat	tcttccgtaa	aacaacctaa	atcccttcaa	120
atacttaata	TTTTtctca	aatactacca	taaaaccaaa	tctccaccgt	cttaaaacat	180
tccttttttaa	aaataaaaaa	tatatatcgc	tcctttttata	taattttacat	tctatcttaa	240
ataatttaac	catcaccgta	attcattcaa	atctattttaa	atcctaccca	tctcaacttc	300
aatccatttc	attcttttaa	atctaatacga	caattacctc	caacaacttc	atcacaaatc	360
actcacaaaa	ataaccttaa	tcctaaaatt	tatttacgaa	aaacacactt	actaaatata	420
taacaaatat	acaaaaaaca	caaaaataaaa	caacaaatct	aaaaacaaat	aacttccttc	480
tccc						484

<210> 27

<211> 371

<212> DNA

<213> Artificial Sequence

<220>

<223> Bisulfite converted DNA (ID 2755 of Example)

<400> 27

ggaagatgag	gaagttgatt	agatattaag	gatgagcgga	tgatttaata	ggTTTTTTtg	60
ttaagatttg	gttgggtagg	tgaaagataa	agtcgaggag	tggttatggg	gtgggtataga	120
agaagggtta	gaggacggtt	tttgttattt	ttttatgttt	gagTTTTTTt	ttttgtgaaa	180
tggggataat	aagagtcggt	atatagggaa	ttgttggttag	gattaaatga	gataatgtat	240
gtgaaacggt	ttgggtgtag	gttttttagt	aaatgggtac	gatttgcgga	gtgggggattt	300
gaatttacgt	ttggcgggat	gtttaagttg	ttattttgat	cgttagggag	ttttagagga	360
taggggttgta	g					371

<210> 28

<211> 186

<212> DNA

<213> Artificial Sequence

<220>

<223> Bisulfite converted DNA (ID 2831 of Example)

<400> 28

ttagtagggg	tgtgagtgtt	ttgattagaa	ttattttttt	ttgttagaat	ttgatgtaat	60
------------	------------	------------	------------	------------	------------	----

82371.revisedsequence

tcgaatgttt	ttatTTTTgt	ttgaagggtt	taaataataa	attaggTTTT	gtcgtgttat	120
tatgggggtg	gttatatTTT	gtatttagga	aatagggtacg	gtagggttga	gatagaagtt	180
ttgttt						186

<210> 29
 <211> 300
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Bisulfite converted DNA (ID 2850 of Example)

<400> 29

ttatagggtt	gagtttggga	tcgagggtgag	agtcgtcggg	ttgggagtga	gggagatggg	60
aataagggtc	tcggtggg	aggggagtcg	aggggaattcg	ggggattggg	aggtttgggg	120
cggcgcggtt	tggtcgggtt	gggatcgggt	tttcggttta	gacgttcg	atgttggtat	180
tttttgttat	tttttatTTg	ggttttaggg	gttcgttttt	gggtagtttg	gagtttttcg	240
aggtgggagg	atcgggcgga	ggtggaggaa	gttttttttt	ggaagatttg	ttgtttgttt	300

<210> 30
 <211> 321
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Bisulfite converted DNA (ID 2852 of Example)

<400> 30

tgaaaatgaa	ggtatggagt	ttggtgttaa	aagaaatttt	ttttaaaaat	taaataataa	60
tattagagta	aagtttttag	ggcgagataa	ggagtgtgaa	taaaataaagc	ggaaattcga	120
gaagcgtaa	tgttttaaag	ggttaatgat	tatatataat	ttacgtagt	aacgtgttaa	180
aatatattaa	cgtatTTTT	ttttttaaat	aaagtaggaa	agcggatttt	gtatgagggg	240
cgggttgtcg	atttagtagt	ttttttcggg	tagttcgttt	tgattttttt	tggttgggtcg	300
tggagggatt	atatggtttt	a				321

<210> 31
 <211> 398
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Bisulfite converted DNA (ID 2859 of Example)

<400> 31

tatgttttgt	tttgttttga	gatagagtTT	cgttttgtcg	tttaggttgg	ttaaaagata	60
gggttttagt	cgggtgcggt	ggttttacgt	tgtaatttta	gtattttggg	agggtcgaggc	120
gggcggatta	tttgagggtc	ggagtTCgag	attagtttgg	gttaatatgg	cgaaacgttg	180
tttttattaa	aaataataaa	aattatttag	gcgtggtggc	gcgtattttg	aatttttagtt	240
attcgggagg	ttgaggtagg	agaattattt	gaatttagga	ggtagacgtt	gtagtgagtc	300
gagatcgct	tattgtattt	tagtttgggc	gatagagga	gatttcgttt	taaaaaaagg	360
aaaaaaaaaa	aaaagaaaa	aaataaaa	gatggggt			398

<210> 32
 <211> 347
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Bisulfite converted DNA (ID 2861 of Example)

82371.revisedsequence

<400> 32

gggtgtagaa	gtgttttaggt	tttttttcgt	tgggggttggg	agtttgggta	ggttagtttt	60
atttttttta	agttcgtttt	tggtttttcgg	gtttagtttc	ggttattatg	tttcggttaga	120
ttatttttgt	gggttttagt	tggttggtat	tggtggaggga	aaagaatgat	cggttcgttc	180
gatagggttaa	ggtaatacgg	ttgttggtat	tttcggtttg	tagttttaag	atttttgaaa	240
gcgggtttgt	agtggattta	ttttaataga	tggggaggga	ttgagtttga	ttaaagagtt	300
agaaatgatt	ggagaatgta	ttttttgtta	ttgttgtaag	gggagaa		347

<210> 33

<211> 291

<212> DNA

<213> Artificial Sequence

<220>

<223> Bisulfite converted DNA (ID 2864 of Example)

<400> 33

tcccccttcca	actatatctc	tcacccaaaa	ataacttcta	actctcgtat	tcattctaaaa	60
ctcctccttc	catataccaa	caattaacta	taacccctcc	aaaaacgctc	catctccaaa	120
tatactccca	catccaaacc	acgaaccctc	cacccgatca	catacttcat	acacctataa	180
ctccgcactc	cccaaatata	cctctaacgt	acaactatta	ccccttcccc	cgattataac	240
cctataactc	gccacataca	actataacta	aaacttccct	aaaacactct	c	291

<210> 34

<211> 389

<212> DNA

<213> Artificial Sequence

<220>

<223> Bisulfite converted DNA (ID 2867 of Example)

<400> 34

aaaacccaaa	cataaaccaa	aaaccaaact	cgaaccgaaa	acaataaccg	caacgcccga	60
aaactaaacc	cacgacgcgc	taacaacgcg	aaccgaacta	cgaaaaacgat	cacgtcaacg	120
tccgtttcaa	accgactaac	aatctccgtt	ctacattaac	gtcaacactc	ccgttaaaaa	180
taatacatct	ctcccatacc	aaaaaaaactt	aaatactact	aaaaaccaac	cctccgaata	240
ctaccaaac	gacgctcacc	cgccaccctt	atcttccctt	ctcctttacc	ccaaaacaac	300
cgaaaatata	taattaaatt	ccccctaccc	ataaaaaaac	caaaaaataaa	aaactaacga	360
cctactcgat	ctcaacaaac	cctcctaatt				389

<210> 35

<211> 272

<212> DNA

<213> Artificial Sequence

<220>

<223> Bisulfite converted DNA (ID 2961 of Example)

<400> 35

aatggttgat	gatttttggtt	ttttttcgtc	gtcggagagc	ggtgttttcgg	aggcggcgga	60
ggaggattcg	gcggtcgttt	ttttggttta	gtaggagagc	gagattgtag	gtatagagaa	120
cgacgagggg	ttcgggggtat	ttgtcggtag	ttatgcggtt	ttcgcgtagt	cgggttttac	180
gagtgggggt	gagtttagcgc	gggggtttgga	gaggggttta	gggcgcgtat	tcggggggatt	240
tcggtcgggg	tttaggggta	tagggaagag	ag			272

<210> 36

<211> 371

<212> DNA

<213> Artificial Sequence

82371.revisedsequence

<220>

<223> Bisulfite converted DNA (ID 3511 of Example)

<400> 36

agttagaaga	ggagttagga	tgggtttcgg	gtagtttaat	agtatagttg	aagttttaat	60
tattatgtta	atagtttttt	ggttttatat	attttatggg	aagaggaaaa	taaaaaggta	120
tttatttgta	tattttttta	tttttgatat	aagaagtaga	atttttttta	tatgatttat	180
gtttatttaa	tacgttattt	tgaaatttat	taataaaatt	ttttaagcgt	tagaaaattg	240
ttagtggttt	tttttatttt	tttttatttt	tttttggttt	attaattttg	tttttttttt	300
ttagaagggt	gtcgggaatag	taaatattta	ttgatatggt	ataattattg	gaaaaatgggt	360
attggaaaat	t					371

<210> 37

<211> 457

<212> DNA

<213> Artificial Sequence

<220>

<223> Bisulfite converted DNA (ID 3532 of Example)

<400> 37

tgtagtaga	gttttaggga	ggttttattt	tttattttta	tttaaagttt	tatttggttg	60
ggtgggggtt	ttgtttggaa	ggggaagggt	taagggttgt	tttagcgtgt	ttttttattt	120
tgattgtttt	tggcggggcg	ggggtgtttt	tgatttttag	ttgtataacg	gtaggaagg	180
gtttaaatta	tttttagggg	taatttaagg	tcgttttttg	ggtttgata	tttttggttt	240
gagtgcggat	cgggagagggt	tggtgaagat	aggaggggat	aaatggggga	cgaaggggtt	300
cgagggaggg	gattgaagga	tttggggttaa	gtcggggagt	ttcgagggcg	gagttaaaac	360
gtatttggat	tttggttagt	ttaaattttg	ttttatttgt	tgtaagtttt	ttagatcgag	420
gatttttcggg	ttgaggggtg	ggtaaggata	ggtagtg			457

<210> 38

<211> 476

<212> DNA

<213> Artificial Sequence

<220>

<223> Bisulfite converted DNA (ID 3534 of Example)

<400> 38

tttttggttt	tatgggggtg	atatttaagt	agttgaaata	gatagtgaat	aaataaaaaa	60
ggataataat	tttaaataat	aatgatgtta	tcggttaggt	gtgggtggtt	atgtttataa	120
tttttagtatt	ttgggaagtt	aagttaagcg	gattatttga	ggttaggagt	ttaagaatag	180
tttggttagt	atggtgaaat	tttattttta	ttaaaaatat	aaaaattagt	tagatatggt	240
ggatatata	tgtaatttta	gttatttggg	agggtgacgt	aggagaattg	tttgagttcg	300
ggaggtggag	gttgtagtga	gttaagattt	gataggtttt	tagtattatt	gtatttttaga	360
ttgggtgata	gagcgagatt	ttgttaaaaa	aaaaaaagtt	ataaatagat	tttaataggg	420
taatatgata	gggaggggag	gataggggag	taggggtggt	aaggaaggga	tattta	476

<210> 39

<211> 458

<212> DNA

<213> Artificial Sequence

<220>

<223> Bisulfite converted DNA (ID 3538 of Example)

<400> 39

tgggtagtat	ttttgttggt	ttttttttat	attataaggt	tacgtagagt	tggcggaggg	60
------------	------------	------------	------------	------------	------------	----

82371.revisedsequence

ttatgggtttt	atztatgtta	ggtgttttta	atttggtaag	gaaatgtaat	ttacgtgaat	120
tttaataggg	agtgaagtat	cgtttttttt	tgatttttag	taggggtgaag	aaaatgggat	180
agtagtacgg	ggtgcgggta	taaacgtata	attttgtttt	tttagacgta	gagttgtggg	240
gttgtagaaa	tgtaggagg	aggtaagaaa	gggcggtttt	atgggggggt	tgtaggggtg	300
gataagttta	agagggtttt	atatttaggt	ttggtggggg	agggtgagtt	ttggtttatc	360
gaggggggtt	ttttttgttt	tccgaaaatat	tgtagttttt	atttttatcg	ttttttcgtt	420
gcgggggatt	aggggcgtga	ggatgagaga	gttttttag			458

<210> 40

<211> 405

<212> DNA

<213> Artificial Sequence

<220>

<223> Bisulfite converted DNA (ID 3540 of Example)

<400> 40

agtgggttag	gagtatttgg	ttatttttcgg	gaaaaatcgg	tttggtaaag	gttttttcga	60
gggtacgcgt	ttttcggata	gtgaggtagg	atttaaattt	tttcgttaat	attatatattt	120
tcgtattttt	gtagtggttg	tatttttagg	ttttattatt	ttttcgtatt	ttttagggag	180
aagttttcga	cgttttattt	tttttggaa	ggtgtgtgtt	ttagagattt	ttaggttaat	240
ggtttaattt	tagtggtttt	aggggagagg	ggggtgtaga	aaaatagttt	gggttataaa	300
agagggtcga	gggttgtgag	atttcggagg	tatcgacggg	aagcgagacg	gagaatagga	360
gggtaggacg	ggttggagg	gggggatatt	gtagatggag	ggagt		405

<210> 41

<211> 2501

<212> DNA

<213> Homo Sapiens

<400> 41

ccagttccag	tccccgggtcc	tgtggccgcc	ctgccggcga	ccctgcggag	agcgagtctt	60
agataccag	tccccagccc	cgagttgtta	ttccctcgct	gtagttaaga	aggaggagat	120
caattaagg	catcttagaa	gtaggcgtt	cccgtgcct	cctttgagca	cggaggccac	180
caaccccta	gggggaagag	atgtagcgcg	aggcaggggt	gtcgtgctaa	gaaatttcga	240
cgcttctggg	gactgaggac	aaagggtcgg	acacgacccc	ggggtacctg	gagttccgtg	300
actcgcgcca	cggacggcac	acctaggggc	taatttctgc	tctgcctcaa	agaacctcaa	360
gctagagtc	ttgcctccgc	ccacagcccc	gggatgcgcg	tgctgcgctc	accgcacagg	420
cagcgcggg	accggctgca	gcagatcgcg	cgctgcgcgt	tccaccggga	gatgggtggg	480
acgtgaaaa	gcttctttct	tgccactctg	gacgctgtgg	gcggcaagcg	ccttagtccc	540
tacctctgct	gagctgaacg	ctcaggcaca	gtggaactga	aaccgggttc	tgcgggatgt	600
gagagctgtt	gaggtcacgc	gtaattgggt	gtgatggagg	gcgcctgttc	gtgatgtgtg	660
caggtttgat	gcaagcagg	catcgtcgtg	cgagtgtgtg	gatgcgaccg	cccagagagac	720
tcggaggcag	gcttgggaca	cgtttgagtg	aacacctcag	gatactcttc	tggccagtat	780
ctgtttttta	gtgtctgtga	ttcagagtgg	gcacatgttg	ggagacagta	atgggtttgg	840
gtgtgtgtaa	atgagtgtga	ccggaagcga	gtgtgagctt	gatctaggca	gggaccacac	900
agcactgtca	cacctgcctg	ctcttttagta	gaggactgaa	gtgcgggggt	gggggtacgg	960
ggccggaata	gaatgtctct	gggacatctt	ggcaaacagc	agccggaagc	aaaggggcag	1020
ctgtgcaaac	ggctcaggca	ggtgatggat	ggcagggtag	gaagggggag	gtccagagggt	1080
ctggatggag	gcttccgcat	ctgtaccttg	caactcacc	ctcaggccca	gcagggtcatc	1140
ggccccctcc	tcacacatgt	aatggatctg	aagagtaccc	cgggacagtc	cggggagatg	1200
gagatttcgga	agagatctta	ggagatctta	cagaatcccc	tgtgcggacc	aggaaactct	1260
tgtagatccc	tgccatatctg	aggcccaggc	gctgggctgt	ttctcacaat	attccttcaa	1320
gatgagattg	tgggtcccat	ttcaaagatg	agtaactgta	gcctctgtga	agttacttgc	1380
ccatgatcac	acaaccagga	attgggcca	ctgtaattga	actcctgtct	aacaaagtct	1440
ttgtctccag	ctccgtctct	tgtttccac	gagccctggc	cctctgtggg	taataaccagc	1500
tactggagtc	agatttcttg	ggcccagaac	ccacccttag	gggcattaac	ctttaaaatc	1560
tcacttgggc	aggggtctgg	gatcagagtt	ggaagagttc	ctacaatcct	ggaccctttc	1620
cgccaaatcg	tgaataccag	ggtggagttg	ggcgagggtt	caaaaccagg	ccggactgag	1680
aggtgaaatt	caccatgacg	tcaaaactgcc	ctcaaaattcc	cgctcacttt	aagggcggtta	1740
cttgttgggtg	ccccaccat	ccccaccat	ttccatcaat	gacctcaatg	caaatacaag	1800

82371.revisedsequence						
tgggacggtc	ctgctggatc	ctccagggtc	tgggaagcatg	aggggtgacgc	aacccagggg	1860
caaaaggaccc	ctccgcccac	tgggttgctgt	gcactggcgg	aactttcccg	acccacagcg	1920
gcgggaataa	gagcagtcgc	tggcgctggg	aggcatcaga	gacactgccc	agcccaagtg	1980
tcgccgccgc	ttccacaggg	ctctgctgga	cgccgccgcc	gccgctgcca	ccgcctctga	2040
tccaagccac	ctcccgccag	gtgagccccg	agatcctggc	tcaggatatat	gtctctccct	2100
ccctctccct	ccattcgtca	ttttctcact	ccctttccctc	ctctccctct	ctctccgcta	2160
gtctcttcat	cagatagtct	ctgttagtcc	gcgatttata	ccaggctcgt	gccctagggt	2220
ggatcggaca	gtctcaatcc	cccggctcgc	tcttcctgct	cggctgcgga	ctccagtctt	2280
actctctcgc	actgcacaca	ggcttaggcc	agtctcggga	cactcaggct	ccccagggac	2340
cgcgcacaga	gcctgaggca	agagaaactt	tccgcagacg	gtgcgatcag	ggacggcgct	2400
tggagcccag	cagtcccagg	gaaattgggt	cagaacctgg	aacagagcgg	atgggtggca	2460
aataggcacg	acgactgagg	gacaagcagc	cctaaactgc	a		2501

<210> 42
 <211> 2501
 <212> DNA
 <213> Homo Sapiens

<400> 42

agatttactc	aaattttaaga	atgagaatac	aaatccacat	cttgaagtgt	ttcacagaaa	60
ggtctatctt	aatgtctgga	gtatatattt	caatgaacat	tcattttatt	ttattttctt	120
ccattcctga	atcaagcaat	cttgaatcta	aagtgtctat	gatttagcact	gaaaagacca	180
ctggactatt	aattgtgtga	ctttgggaca	gtaactttct	gcaccttagt	ttgtttacat	240
gttatacatg	aaggttgaag	tctgattctg	ctctgtgact	atcattctaa	acatctgatg	300
aaatcaaatt	tcagtgtttg	gaatggtagt	acaataaatt	tactaagaat	aaataattca	360
ctgcaaaaac	acattgattt	ccaaatgatg	taactgacag	ttatattact	gcagagggct	420
gataaataac	aaaagaaatg	aaagatgcac	atggtgagaa	ctgaaattat	cctgacaagt	480
cttctacctg	tttatcactt	aaaatcaatg	accatgctga	atgcctacaa	attacaaaat	540
ataaaagaaa	tcttataaat	gcgcatgtac	aggagtctaa	gttactaaaa	gttttaaaagc	600
ataagtttaa	accaaaactaa	tcaaagaagt	tgagaggaaa	aattggcttt	catctttaat	660
cactactggt	ttgaggtcct	atgttttaata	taattttcta	agtagaggct	tcagagagaa	720
gagttgtgag	gatactttca	tatttgtgta	gaaggaaaag	tttgccatcc	attctagtat	780
ccctagtgtt	atactgatgt	gcaccttgga	tttattttgt	tcctattgta	taaactcata	840
cttgacttca	aagaaaagga	aaatccaaag	tccctctttt	ctaaggggac	agaaatcctt	900
tgtgtcaact	gtttgaccct	tttctctgta	aggtcctatt	ggaaatcttt	tgtaacacaa	960
tgcaggggac	tcttccatgt	gttgatgctg	tttacacagt	gggggtgggc	tgactgaaga	1020
aaaaaaatcg	catatacgca	tgaagatta	tggctcttatt	tccggaaaagc	atgaaagggtg	1080
attgatactt	ccaagaagtc	cctgttactc	aggaaaatta	tcaaatattc	tactcagaga	1140
tacttggaag	gactgaagga	aagggaagaac	gaagaaagca	gaatctagac	ttatgtgggg	1200
agagatttgt	ggcagaggga	aagtattctc	tttgaatccg	acaagggatt	tgcctggggg	1260
aatitctctg	ccagcccttt	attaccaggg	tcttttgaag	ccgggctccc	cattgggcag	1320
ttccctggga	gtgcagtggt	gaattcttac	actttccctc	taggtccccg	aaggatctcg	1380
ttttctcagt	gtctctttca	ggttggcagg	agccttgagc	ctgacacttc	cctttgatgg	1440
gacaggcaag	ctctgtgggc	gcgtaaacac	gctgtaacca	agttctttgc	tgattttaca	1500
gttttgtgtg	ctcccagagaa	gaagtgatcg	tactcaattg	tctattgctg	gcctgcccc	1560
taagagcctg	ggggctcctt	tcccctaacc	cagaactagc	tgcacggggg	gcggggaaat	1620
gggggtgggg	aaggagtggg	agggcagtgg	tttccgcgag	cagagcgatg	ttactgagtg	1680
agtccctgaa	tggggagcgc	tgtgttcccc	aagccgattg	gtacttcttg	tcaggaagaa	1740
acgccaagag	gtgggagtgc	ctggggaggg	aggcaggcgg	tccctaccgc	aggcgcgggg	1800
agctgccttt	ccgcccctcc	gcctgctttc	caagcctgga	ctcttaggag	tggctgaagc	1860
tgcggagcgc	ttttggagcc	tgtgaatgaa	ccctcctcct	ctccctcctc	cttcttctcg	1920
ctgagtctcc	tcctcggtc	tgacgggtaca	gtgatataat	gatgatgggt	gtcacacccc	1980
gcatttgaac	ttgcaggcga	gctgccccga	gcctttctgg	ggaagaactc	caggcggtgcg	2040
gacgcaacag	ccgagaacat	taggtgttgt	ggacaggagc	tgggaccaag	atcttcggcc	2100
agccccgcat	cctcccgcac	cttccagcac	cgtcccgcac	cctccgcac	cttccccggg	2160
ccaccacgct	tcctatgtga	cccgcctggg	caacgccgaa	cccagtcgag	cagcgctgca	2220
gtgaattttt	cccccaaaact	gcaataagcc	gccttccaag	gtaatcacgt	ttcttttggt	2280
cccccttaa	aaaaaataa	caaaaaactt	atagaaaaaa	acccgcgagc	ttagaaaaaa	2340
gaagcaattg	gtagaagggt	ttaattaagg	caaagagctg	taaggcgaag	ttaagaaaat	2400
gtaggcactt	aaaaaatgca	ggtaactttc	ataagggtct	ttggggagag	gcatacagag	2460
ggaccttggt	gttgaaaaag	attcagacaa	aagaaaccca	g		2501

82371.revisedsequence

<210> 43
 <211> 2501
 <212> DNA
 <213> Homo Sapiens

<400> 43

tgtgggtcat	taatgcaatg	ttattttaaga	ctaggatttg	gctgggcgca	gtggctcacg	60
cctgtaatcc	cagcactgtg	ggaggccgag	ccgggaggat	cacctgaggt	caggagtcca	120
agaccagcct	gaccaacatg	gtgaaaccac	gtctctacta	aaaatacaaa	attagccggg	180
catagtcaca	tgctgtaat	cccagctact	gggtagcctg	aggcaggaga	atcgcttgaa	240
cccgggaggc	ggaggcggag	tttgacagtga	gccaagattt	cacaactgca	ctccagctctg	300
ggccacaaga	gcgaaaaccc	gtctcaaaaa	aaaaaaaaaag	actaggattt	gacataaggc	360
ctgaggggta	ttcttttgtt	ttgttttgcc	ttgttttcaa	gaggccaaaa	tcttcacagt	420
tgaaaaatttc	tgttgaacca	cagagatttg	aaccaactca	gtttagaaag	cctgggggatt	480
tgaacaacgg	tatggatcgg	aaatctcttc	atctgtcagt	tttcatcatt	ctaggcagta	540
aaatagattt	cccttttagga	gcttttcacc	gtttgggggt	ctccagcagt	gggatgtggg	600
gaatcaaccc	ttcttcgtct	ccacccaaac	attagggtggg	agcaaggggt	gggaagtaga	660
gaaagtggat	agaggtctcc	agtggatatg	ggatctttgt	gtagaccagc	acagtcctca	720
gaaatctcat	gcaagcaaca	taggtactgt	tatatatttct	agtggccacc	ttttaaaaag	780
taaacagggtg	aggccgggcg	cggtcgtcac	gcctgtaatc	ccagcacttt	gggaggccca	840
ggcgggaggga	tcacgaggtc	aagagatgga	gaccatcctg	gtcgacacgg	tgaaaccccg	900
tctctactaa	aaatacaaaa	attagctggg	catggtgacg	cgcgactgta	gtcctagcta	960
ctggggaggc	cgaggcagga	gaatcacttg	aaccctggag	gtggagggtg	ccacgctcca	1020
ctacactcca	gcctggcgag	agagtgaagc	tccgtctcaa	aaaaaagaaa	gtaaacaggt	1080
gaaattaatt	tttaataatat	attttgttta	acccaacgta	tccaaaatac	tatcatttga	1140
aagtgtaatg	aatataaaaa	tattcatgag	atatttttca	ttctcatatc	catactgtct	1200
tggactctaa	tgtgtatttt	acacttacag	cacaattaat	ttgggactag	ctacatttca	1260
gtcaacaat	agccaatagc	atatgggata	gcgcaataaa	actctgcgtc	tctgttgctt	1320
ctttgggtct	cggagacctc	aaccctttct	tcagattgca	aaccttcttg	ccttcaagcc	1380
tcgggtccaa	caccagtcgg	gcagaggaac	ccagtcta	gaggtacgct	cccttcctgc	1440
catttctctat	tccattaacc	tgtttcgtgg	taaaacgtag	actgatcctc	caaaattacc	1500
ttattaatta	gcttacatat	ttattatcta	tctgtcccac	cagaatgcag	gtttccggaa	1560
ggcagggatt	taaaaaaatc	tgttttgttc	tatgtgattt	tcccatacca	agcaccgtgc	1620
ccggcacaag	ctgggatccc	agtacacatc	tcgggacgga	agaaccgtgt	ttccctagaa	1680
cccagtcaga	gggcagctta	gcaatgtgtc	acaggtgggg	cgcccgcgtt	ccgggaggac	1740
gcactggctc	cccggccggc	gtgggtgtgg	ggcgagtggg	tggtgtcggg	gtgtgcgagg	1800
tagagcgcgc	cagcgagccc	ggagcgcgga	gctgggaggga	gcagcgagcg	ccgcgcagaa	1860
cccgcagcgc	cggcctggca	gggcagctcg	gaggtgggtg	ggccgcgccg	ccagcccgtc	1920
tgcaggggtcc	ccattggccg	cctgccggcc	gcctcccgcc	caaaaggcgg	caaggagccg	1980
agaggctgct	tcggagtgtg	aggaggacag	ccggaccgag	ccaacgccgg	ggactttgtt	2040
ccctccgcgg	aggggactcg	gcaactcgca	gcggcagggt	ctggggccgg	cgcttgggag	2100
ggatctgcgc	ccccactca	ctccctagct	gtgttcccgc	cgcgccccgg	ctagtctccg	2160
gcgctggcgc	ctatggtcgg	cctccgacag	cgctccggag	ggaccggggg	agctcccagg	2220
cgcccgggtg	agtagccagg	cgcggtctcc	cggtccccc	gacccccggc	gccagctttt	2280
gctttcccag	ccagggcgcg	gtgggggttg	tccgggcagt	gcctcgagca	actgggaagg	2340
ccaaggcgga	gggaaacttg	gcttcgggga	gaagtgcgat	cgagccggg	aggcttcccc	2400
agcccccggg	gccgggtgag	aacagggtgg	gccggcccga	ccaggcgctt	tgtgtcgggg	2460
cgcgaggatc	tggagcgaaac	tgctgcgcct	cgggtgggccc	c		2501

<210> 44
 <211> 2501
 <212> DNA
 <213> Homo Sapiens

<400> 44

gatgtgaaaa	gagaaataat	tgaaaaagac	tggagtacat	atactatcta	cagtgtctgt	60
tttaaagaaa	caacattcta	gcacaccttt	ctacccttga	ctaagattac	tgtaatgaga	120
gcaccagtag	ccctgagtaa	ccgaaagggc	atthttgaaa	ctgagctttt	ggtgtttata	180
tgaacattct	gtcttccagg	acctgccttg	atthattcaa	gactcatact	gctgtatatg	240
gtgttgata	cattaggggt	agttgggtag	cagtaactga	tatagaaaat	tttaaatgta	300
aaaaacactg	gggagtgaac	ctttccatta	tatatataata	tatatatata	tatatatata	360

82371.revisedsequence

tatatatata	tatatatata	tataaattca	catcaggatg	agtttctgtt	taggcaatgt	420
tggaaaacgc	tattttccatt	tttttttttt	aacaaatatt	taacaaacat	ttataaggca	480
cttaaatcca	tgctggctct	tacaaatggt	gactcatttc	tcataaccac	cttggggtag	540
aaacggagag	gctaaacaat	ctgcaggcga	tgcttacta	ctaaatgcag	gtggcagcct	600
tgctgtgtgt	ctctgcttgg	ctaggaacac	aggtcttacc	tattgagctg	ggctgtgtag	660
aactctgttg	tggagacatc	tgccccctggg	gcagaagcct	ctgctttttc	ccccctcctcc	720
catcttactc	catgtctcag	agagctctga	atccccacttg	gagaatcaca	cttaaaccct	780
ctaaaaacct	aatgatgaat	aaaaataagt	tctctagaac	ttctggagaa	aaaagtaata	840
aagctaccag	gttaaatgac	tgaaatttct	gagagaaaac	aacatgtgtg	tgtttctcta	900
gaaagggggc	ccaatactga	ataccaggaa	gtcctatagt	aaatggaatg	tgactctatg	960
tgggatccgg	cgttcctatt	tcattccgaat	gcatgtctgc	tgcttcagt	ggaaggggtgc	1020
ttgcacacca	ggtacccact	ccctgggtgtc	atgtgtctatg	cagtccaaaag	acagaaccag	1080
gaatggtgag	cccatgagcc	tgctggaccc	agccccctccg	aggtccggag	tgacaaccag	1140
tgccgtattt	ctagatcaaa	cctgaacccc	tcctacaggg	aaaagatttc	caggggattt	1200
tgaaagtccc	aacattttac	agggaagaag	gaagataagc	aggatatgaa	agaagagtcc	1260
atgttatata	gccctggcct	ccactgacgc	taacactgga	ttcagctttt	gacactgata	1320
atctgttgcc	accaaagtga	aaacgtaaac	aagatattct	aagtgtgggt	agagaatatg	1380
caacacaagg	aacaagcaga	acattcttct	ctggaatctg	acataatgga	ctgtactttc	1440
acagacagca	ctgatgttag	atgtacgtga	aataggctaa	actgaaaata	agaaaggctg	1500
aggcagagag	gataatatag	ctccagccta	tctcccagca	ccttgtaaat	ttctctcaac	1560
ctccagccac	aaatccgaga	cacaacgctc	ttcctccaaa	gaggctcgcg	cttctctgtg	1620
gtggttctca	gggatccgcc	ccagctcctt	ctccgttccc	agccccacac	actgggatca	1680
ccaggcaccc	aagatcccac	ctctcaggtg	gtatcttcag	cgcaggctgc	cactcagccc	1740
ccctccaggg	atctggggca	gaaggcgaat	atcccagagt	ctcagagtcc	acaggagtta	1800
ctctgaaggg	cgaggcgagg	gctgcatcag	tggaccccc	cacccccacc	gcacccccaa	1860
cgctccaccc	tggggggcggg	gccgtcgcc	tccttccgga	ctcgggatcg	atctggaact	1920
ccgggaattt	ccctggcccg	ggggctccgg	gctttccagc	cccaaccatg	cataaaaagg	1980
gttcgcggat	ctcggagagc	cacagagccc	gggcccagag	cacctcctcg	ccagctcttc	2040
cgctcctctc	acagccgcca	gacccgcctg	ctgagcccca	tggcccgcgc	tgctctctcc	2100
gccgccccca	gcaatccccg	gctcctgcga	gtggcgctgc	tgctcctgct	cctggtagcc	2160
gttgggccgg	gcgcagcggc	tgggtaccgg	cgccctgggg	tccccggggc	ggacgcggct	2220
ggggtaggca	cccagccggg	acagcctcgc	tcagtcaagt	agtctcttct	tccctaggag	2280
cgctccgtgg	cactgaactg	cgctgccagt	gcttgccagc	cctgcaggga	attcacccca	2340
agaacatcca	aagtgtgaac	gtgaagtccc	ccggacccca	ctgcgcccac	accgaagtca	2400
tgtaagtccc	gccccgcgct	gcctctgcca	ccgcccgggt	cccagaccct	cctgctgccc	2460
caaccctgtc	cccagcccga	cctcctgcct	cacgagattc	c		2501

<210> 45

<211> 2501

<212> DNA

<213> Homo Sapiens

<400> 45

ggcgacagag	caagactccc	tcttaaaaaa	aaaaaaaaaa	aaagattctg	agtcaaagtg	60
ctcaagttga	atgcattttg	tcattccaca	gacaaatcgt	gttaacccct	tgtgggtttac	120
tttatctata	aaatagagat	aacaatagtt	cctgcttcta	gggttggtgt	gggaattaaa	180
gacttagaat	aatgttcagc	ctctaactag	tgctgtcaca	actgtctgat	acaattgtat	240
tatatattgtg	tactttgtag	attgatatta	aatcatactt	ttaaaaatag	gtgcttaatg	300
ttccactcaa	ttaccttaaa	acatgtttta	ttatgtctct	atcctactct	tataacactt	360
ctataaaaac	tttttacata	tagcgtccac	ttttggttca	gtttcttagg	aaaataactt	420
tgagagtcag	ctatctgaac	caaagaaaac	ttaacattac	cagactatat	tgggattttt	480
gagactggct	tttatcaatt	cttttagctac	gggctcttgt	catcatctct	accagtgacc	540
taagtgtcaa	acccaaatgc	cttgtattctg	tcccattaaa	gagatgcagc	atctgtctct	600
ttcttactgt	ttccattttc	tctgcatatg	ctcctcttac	aaccataaat	atccaggctc	660
cttaggtttt	aaacggggca	tctctcaacc	cccacattct	tttcttgggt	tattcccttc	720
cctccaacag	ttcaattcac	ctagatcccc	acgcctgaaa	ttatcctaga	tgtcctagag	780
gcgcctcatc	attacaatgg	tacattattc	tccactcctt	tacatgtcac	gccagctttc	840
aaactgaaaa	tctgagcgtt	catccctggg	gcatcacctt	taaattccag	atctccaaaa	900
tccagggtca	tgtaacctta	aaaaattttt	acctactctt	ctccactgcc	cttgttcagg	960
ccttatctct	tccagcagct	gttccaaaag	cctactctgt	tttcttttcg	gagtgcctaac	1020
ctccaccgaa	gcctccaccc	agttgccaat	tctgccccat	gcctgataat	ttgtctgtgc	1080
gttgacatac	ataaaaatttc	taagacaaaa	attttttaat	aatggtaaat	gaaccttggg	1140

82371.revisedsequence

aactgcatac	agatcataca	gatccataat	aagagaaaaag	gtcccagatt	aacacggaaa	1200
acttttccatt	taactaacat	ttgcactggg	aaacttcatc	aagcaagacc	ctacttaatc	1260
ccacattacc	ttctactgaa	gagggtgtgg	tcatttctctg	gaaatatctg	aattcattcc	1320
tacaagttag	agaaacagcg	ttactcgaaa	cattatccct	tgggctcgag	ctctaaggca	1380
cctgacaaac	ggagcgctgt	gggtaggggt	gagggtgtttt	ctccagggtc	gggactttgc	1440
cctggggcgag	ggcgcccgag	ggcaaagacc	tcaccgggca	gcagaatccg	ggcagaaatc	1500
agcaactggg	cctcccgcgc	agcagaaaaag	gggaatccag	tcggggccca	cccttcctgc	1560
cagcgagac	cgcaagtctg	gccccatcct	ctcgccggga	gtcggcctgg	cgcgccccgc	1620
ccaggtagcc	cgaccgtggg	cagcctgcgc	ccgtttgggt	cccatcgccc	cgggcccgga	1680
gatacctgag	cggtggccag	ggcagggtccc	cgttcttgcc	gatgcccag	ttctgggaca	1740
cagcgacgat	gcagtttagc	gaaccaacca	tgacagcagc	gggaggacct	ccgagcccgc	1800
tcgttacagc	agaacgcgcg	gtcaagtttg	gcgcgaaatt	gtggccgccc	cgccccctcg	1860
tccctatttg	tgcaggcgag	gccccgcccc	cccggccccg	cgcacgcagg	gtcgcggcgt	1920
gctcgcgccc	gcagacgcct	gggaactgcg	gcccgcgggt	cgcgctcctc	gccgggccc	1980
gccgcggggc	tgccatcctt	ggcctgccat	gtctcgccgg	aagcctgcgt	cgggcggcct	2040
cgctgcctcc	agctcagccc	ctgcgaggca	agcggttttg	agccgattct	tccagtctac	2100
gggaagcctg	aaatccacct	cctcctccac	agggtgcagcc	gaccagggtg	accctggcgc	2160
tgcagcgccc	gcagcgcccc	cagcgccccg	cttcccgcgc	cagctgcccg	cgcacgtagt	2220
aggttctgtc	tgggactggg	cagggccatc	ggggctgggg	gggcggggct	tgtgggtaag	2280
gcgggaggag	gcgtggaccc	tccgccccgat	gataggcgctg	gaggagggaag	gggcgggctg	2340
aagaagggga	aggtgggaag	agcccagccg	gggctacaaa	ttgggtgaag	cgctgagggt	2400
ttagtacttc	cgtttgagga	gataggcaaa	ggttatgcag	gtttttaatg	gcaggcctga	2460
gacagggaact	cagggtctcct	gactcccatt	ctgatgaggg	g		2501

<210> 46
 <211> 1092
 <212> DNA
 <213> Homo Sapiens

<400> 46

aagcttcccc	ttcatcatcc	aagaaggcat	tcagggtcttt	ctgtgctagg	ccccaggtaa	60
agtgtggac	taccagtaa	ttgggttcag	tagcaggatg	gcctcagatt	gagggtcccag	120
ggccaaagga	ccactcctct	cctcagcgct	ggtccgggaa	aggcaagctc	cgggcgggag	180
cgcacgccc	gccccgaag	cctggctccc	tcgccacgcc	cacttcctgc	ccccatccc	240
cgcttttcca	ggtcttctcc	cggtgaaccg	gatgctctgt	cagtctccta	ctctgcgtcc	300
tcggccgagg	cccggttccc	tcgcaaagcc	gctgccatcc	cgaggggccc	agccagcggg	360
ctcccggagg	ctggccgggc	aggcgtgggtg	cgcggtagga	gctgggcgcg	cacggctacc	420
gcgcgtggag	gagacactgc	cctgccgcga	tgggggccc	gggcgctcct	tcacgccgta	480
ggcaagcggg	gcggcggtcg	cggtacctgc	ccaccgggag	ctttcccttc	cttctcctgc	540
tgtgtgctgt	ctgcatccag	ctcgggggag	gacagaagaa	aaaggaggta	gaatggatcc	600
ccttggcctt	cccctgtggt	cgggggcggg	ccagggtggg	ccgcgttgcc	caggcagccc	660
tgccgtgttg	ctaggcagct	tggtcgccc	cgtagggcgat	gccggcgctg	gggcgggagc	720
cgcgagggtg	ggaggccctg	gggcgtttcc	gggacgtgga	gttagcaggg	ttctgacttg	780
aaaaacgacg	gcaaagcgtg	ttcttgactg	cttctgagca	cctcacacct	ttcagacca	840
gggcgccttt	attcccagct	ggaagcccag	cttagagcaa	tgggtgccact	aaaaggggtg	900
tgttggatgt	gaaaataccc	tttggaaagta	tttataagcc	tgcaggaaat	atgttttcct	960
tattttctta	ctctgctccc	ttcattaccc	atttcaagaa	gcaacagaac	ctgtgcagag	1020
tgtgttttaa	gttacactgt	atgtttatct	ttgtttatgt	tgaactcggg	gtatacttgt	1080
gagaataagc	tt					1092

<210> 47
 <211> 2501
 <212> DNA
 <213> Homo Sapiens

<400> 47

cgaaatgaaa	cctcggcccag	gaggccgcgg	acctggacac	ccggcgccac	ctccttcacc	60
tctgacccag	gttttctccc	ggcgctgcga	gctcccgggg	aagggttaga	gccggcagcc	120
ctccccagcc	cggggagggg	agagggttat	gcgacccac	ctctggctag	ggccggggag	180
gcctttgctt	cccgggagcc	ctgcccgggc	tccttggtcg	cagggtgct	gggtcccagg	240
caggaacgag	aggggtgaggc	ccacatgtgg	cccggcgggc	caggcgggct	tgcagcgtcc	300

82371.revisedsequence

tcactgtccc	ggctgccagg	ggctgcccgc	acgcggccag	tcagcagcga	gttcagggtcg	360
cgagatcttt	attgatgagc	tctgactttc	agcactttcc	ctaagtcaag	aagagtctag	420
cgtacccttc	ggctgcttca	tttcagcctc	cctgcctcag	ctcttcagcc	ctattccccc	480
tcgccctgtc	ctgggggtgt	tacagcagcc	caggccttcc	ttctccttcc	cggctccgtg	540
gcccgaagcc	gccgagagag	ctcgggacag	cgcaggacca	ggcagccgct	cgctctcctg	600
tcaccttaac	tgcaaggctcc	gaggggcgcc	tttggagtgt	actgagggtgt	gtcctaatacg	660
tgcggcattc	aacaaatgga	cttctgggtgt	gtggtcagaa	gagaaaaagcc	atttacttac	720
tttctcctcc	ggttttctgg	caacagctga	aggggagctg	cctccgtgga	ctgagcagac	780
ccaggagagg	gagtcgtggg	gcggagacac	acgcaccaca	cacagatgac	cgggtggcaca	840
cacgacacac	gctgacatac	cgacatcgcc	agtgggacac	acacacacac	acacacacac	900
acacacacac	acacagagag	agagagagaa	tccctcccag	cattgggtcat	ccgccccccc	960
acccaggctt	ccactccccc	tccccctcta	tctccccctg	cttccccctcc	tctcgggcgc	1020
tgcgaaaagc	agccgcactt	agtcaacaaa	tggcacgtgg	gagaagttgg	tgagtgtttg	1080
gtgaggagtc	ttcaggcctt	ttcacaagaa	ccctctgtac	acaaagtaag	tggcgtgttt	1140
actcgggcct	ctccagccag	agctgtgcct	ctgctccgct	gcgcaccgcg	gcttccgaaa	1200
ggagaaaagga	gagaagaaaag	ggcggggaga	gcgggggtgga	ggattttggac	aggcccttga	1260
ggcttggggct	ggggaggcct	ctggcctcgt	ttagttctcg	gcccggcaac	ctcctctcgg	1320
cctaggcttc	gccgcggcct	ccgcagctgg	aatggagctg	ccaggaccca	gtgacgctcc	1380
cgcccccttc	ctcttcttcc	aaggggcccag	gtgggctggg	gtgcggccgc	cgctgtgctc	1440
tgtgtcttgg	ggccccggct	gggatggggg	gggggcgggc	gggggcgggg	cggcaggcca	1500
cgctgtcctg	gagttggcaa	gaaaggacag	cacagaaact	tgacccctcc	gaggactggg	1560
agtcccgagt	ccagcttagg	gggagtgggg	gcgcgacccc	caaccagaaa	accttcactt	1620
gaccgctcaa	gttcgcggca	gcagggcggg	ccgcgcggaa	tctcggcggtg	cgcgagcgcg	1680
ggagatgcag	gcgagcgcca	gagcccgggc	tcgggggccc	tgccgcgggg	agaggagccg	1740
ggaccaccgg	gcggagccga	aaacaagtgt	attcatattc	aaacaaacgg	accaattgca	1800
ccaggcgggg	agagggagca	tccaatcggc	tggcgagagg	ccccggcgct	gctttgcata	1860
aagcaatatt	ttgtgtgaga	gcgagcgggt	catttgcatg	ttgcggagtg	attagtgggt	1920
ttgaaaaggg	aaccgtggct	cggcctcatt	tcccgcctctg	gttcaggcgc	aggaggaagt	1980
gttttgctgg	aggatgatga	cagagggtcag	gcttcgctaa	tgggccagtg	aggagcggtg	2040
gaggcgaggc	cgggcgcccg	cacacacaca	ttaacacact	tgagccatca	ccaatcagca	2100
tagtgtgtgt	ggctgcagcc	acttccctca	cccacactct	ttatctctca	ctctccagcc	2160
gctgacagcc	cattttattg	tcaatctctg	tctccttccc	aggaatctga	gaattgtctt	2220
cacacaccaa	cccagcaaca	tccgtggaga	aaactctcac	cagcaactcc	tttaaaacac	2280
cgctatttca	aaccattgtg	gtcttcaagc	aacaacagca	gcacaaaaaa	ccccaaccaa	2340
acaaaaactct	tgacagaagc	tgtgacaacc	agaaaaggatg	cctcataaag	gtgagtcgcg	2400
ttctttcttc	tcgctttatt	tttattgcaa	tattcagaca	ggtctcccc	ttcctcccc	2460
cttcttctct	cccctctcgc	cggccccctc	ccccactgct	a		2501

<210> 48
 <211> 2501
 <212> DNA
 <213> Homo Sapiens

<400> 48

tgatgggttc	acaactctga	gtacatgaaa	aatcaatgaa	ctgatacttt	gagtggagctg	60
tatgatactg	gaattacacc	tcaataaagc	atggtaactg	ttttaagata	ggctggaaaag	120
agaaagcctg	aaaacaacaa	taatgatatt	aataaattag	tttacttctc	tagtctcata	180
tacttctgtg	cccacacttg	ctcctgttct	attcataatg	gtcccccttg	agttggccata	240
ttatatcctg	ccatttgatg	cccgggtgaac	attctatacc	tgcttcccag	aatttctctt	300
acctttcctc	tatctgccta	acttccacat	atctaaaatt	aatcagagta	aactattttac	360
tagaacaacc	aactccaaat	cctagtaacc	taacatgata	aagggttggt	tctcactcat	420
atagcccctc	cccagatgat	cgagggggtcc	aggctcctta	cctctagttg	ctccccacc	480
ttctggagtc	ttctgcattc	tttatacatg	gttgagataa	actatgagtc	attagcacag	540
ctagaccctg	aggtcctaca	agaaaaattg	caaatcattc	actctgtttt	gaacaaggta	600
tattttaagat	gatgttaaaa	tacccaatgg	tcttggggtca	aatacagttt	atgactgtgt	660
atctaaaata	tattattgaa	tatttctccc	tttttctact	gacttcatga	atttagcggg	720
gatccatttt	ataagctcaa	agataattac	ttttcagact	agaatatatt	agggtaaaaa	780
gtactgttca	acatctctac	tgaggatggt	atgatgtagc	acactgtata	agctggagct	840
aaaggaaact	ttccttaaa	tgctatttca	taaaaattgg	aacacattcc	ttaagacaaa	900
tcgaagtgtg	gcacacaaca	tccaaacttc	catcatagat	acagagggtg	taccatctcc	960
cactcccaaa	tttctttgtc	acgctgagga	tactcaagag	gagcaggaca	tgttgggtcg	1020
agcaggagaa	acttgaaaagc	attcactttt	atggaactca	taaggagagag	aatttcttat	1080

82371.revisedsequence

tttagtatcg	tccttgatag	atattattatt	ttaaaagata	atgtagccaa	atgtcttcct	1140
ctgtgtttaa	tctttacaaa	actgaaatct	taaaatggtg	acaaaaattc	tacttctgat	1200
agaatctatt	cattttttcca	attagatagg	gcataattct	taattttgcaa	aacaaaacgt	1260
aatatgctta	tgaggttcca	tcccaaagaa	cctgctattg	agagtagcat	tcagaataac	1320
gggtggaaat	gccaaactcca	gagtttcaga	tcctaccggt	aattggggta	gggaggggct	1380
ttgggcgggg	cctcccctaga	ggaggaggcg	ttgttagaaa	gctgtctggc	cagtccacag	1440
ctgtcactaa	tcggggtaag	ccttgttgta	tttgtgctg	tgggtggcat	tctcaatgag	1500
aactagcttc	acttgtcatt	tgagtgaat	ctacaacccg	aggcggctag	tgctcccga	1560
ctactgggat	ctgagatctt	cggagatgac	tgctcgcccg	agtacggagc	cagcagaagt	1620
ccgacccttc	ctgggaatgg	gctgtaccga	gagggtccgac	tagccccagg	gttttagtga	1680
gggggagtg	gaactcagcg	agggactgag	agcttcacag	catgcacgag	tttgatgcc	1740
gagaaaaagt	cgggagataa	aggagccg	tgctactaaa	ttgccgtcgc	agccgcagcc	1800
actcaagtgc	cggacttg	agtactctgc	gtctccagtc	ctcggacaga	agttggagaa	1860
ctctcttgga	gaactccccg	agttaggaga	cgagattctc	taacaattac	tactttttct	1920
tgcgctcccc	acttgcgcgt	cgctgggaca	aacgacagcc	acagttcccc	tgacgacagg	1980
atggaggcca	agggcaggag	ctgaccagcg	ccgccccctc	ccgccccga	cccaggagg	2040
ggagatccct	ccggtccagc	cacattcaac	acccactttc	tcctccctct	gccccatat	2100
tcccgaac	ccctctctct	tcccttttcc	ctcctccctg	gagacggggg	aggagaaaag	2160
gggagtgcc	tcgtcatgac	tgagctgaag	gcaaagggtc	cccgggtctc	ccacgtggcg	2220
ggcgcccg	ctcccccg	ggtcggatcc	ccactgtgtt	gtcgcccg	cgcagggtccg	2280
ttcccgggga	gccagacctc	ggacaccttg	cctgaagttt	cggccatacc	tatctccctg	2340
gacgggctac	tcttccctcg	gccctgccag	ggacaggacc	cctccgacga	aaagacgcag	2400
gaccagcagt	cgctgtcgg	cgaggagg	gcataattcca	gagctgaagc	tacaaggggt	2460
gctggaggca	gcagttctag	tccccagaa	aaggacagcg	g		2501

<210> 49

<211> 2501

<212> DNA

<213> Homo Sapiens

<400> 49

taccttcata	aaaggatctt	tgacttggtg	agtgtgtg	atgcatactt	ttcatgttac	60
accacaagtg	ccacttagca	actccactag	acagggcagt	gtttcagcat	gggggtgggt	120
gccccctgac	aggcttttaa	aaggcccgga	tgccaatgca	cattccaaca	ctatccacaa	180
aaaggagact	ggagcagtc	tcttccctgc	attgggcaag	gagactctcc	ctccctgcct	240
aaccacttgc	ctgccctgtt	ttgtgggaga	attacaagta	aatgctacag	aggcagtgg	300
gaaaaaagg	tgtttttaatt	cctctccaga	gtttccttta	tttgatgtat	gttgcatcct	360
ttaaacaagt	tggtgcaaaat	ggctgcagg	tagattggct	ctccctttta	aagctctcca	420
tccggctggg	tttatttgta	aatactgcat	ctatccitct	tagtgtttta	ggactggctg	480
gaaagactct	tcttctctgta	ggttgggtca	gtgtgagaga	tctaaaaaat	cattttccct	540
taaaattact	gtattttta	aaaaggattg	ggcaggggct	ggaatgagag	aaaactgggt	600
cttcaaaatg	taaaactgtc	atacttaaac	cagtttacaa	aatatgcgtt	taattatgtg	660
gtgggatgtg	tgtaggtgta	tgatgagaga	ggcaaccaac	atggctat	gggggtgcaag	720
gatgtgggaa	caggcaagta	attttcacat	tggactttca	tcctaggagg	ctgggttcta	780
gtcacagctc	tgagctgtgt	gaccttgggt	aggctctcatc	tccccgggg	tttgtttcac	840
cagttgaaca	gtatgaggat	gagtcacagc	taacatttgt	tccatgat	ttaccagca	900
ccatacaagt	gttatttctg	tcctcccag	taacactgac	gtgggtagta	ttatatgccc	960
atttttacaga	tgaggaaact	gaagcctgaa	gaagttaaat	acttatccca	gaacacacag	1020
ctggtaagtg	gcagacctgg	aatttgaatc	tagttcagtt	tgattcccca	acccatgctc	1080
ttgaccacta	tactgttttt	tcaagtccag	atctgaaatc	tcattttctg	tggtgctgtg	1140
tgtttgggac	aggggtaacc	aattcctgac	tactctatat	gctgcataga	acctggagag	1200
gatttttcaa	agtaaatgaa	tctcgaaagc	tggattgac	agcaaaccag	tgcagtcaat	1260
tcagcccagg	gcttgcaaga	gggagaaaga	gaaaaagact	gtggaatgga	aagtttccca	1320
acccaagcct	ttcccaagg	gtagccattc	tctgttctac	agtttagggc	ttgcatgtgc	1380
tttttctgga	gtggaaaaat	acataagtta	taaggaattt	aacagacaga	aaggcgacac	1440
gaggaattta	aagtgtgggc	tggggggcga	ggcgggtggc	gggaggcgag	cgggcgcagg	1500
cggaacaccg	ttttccaagc	taagccgccc	caaataaaaa	ggcgtaaaag	gagagaagtt	1560
ggtgcttaac	gtgagccagg	agcagcgctc	cggctcctcc	cctgctcatt	ttaaaagcac	1620
ttttgtgatt	gtttttaagg	tgagaaatag	gaaagaaatc	gccggcttgt	gcgctcgctg	1680
cctgcctctc	tggctgtctg	cttttgacag	gctgtgggga	gtttttaagc	tctgtgagaa	1740
tcctgggagt	tgggtgatgtc	agactagttg	ggtcatttga	aggtttagcag	cccgggtagg	1800
gttcaccgaa	agttcactcg	catatattag	gcaattcaat	ctttcattct	gtgtgacaga	1860

82371.revisedsequence

agtagtagga	agtgagctgt	tcagaggcag	gaggggtctat	tctttgcca	aggggggacc	1920
agaattcccc	catgcgagct	gtttgaggac	tgggatgccg	agaacgcgag	cgatccgagc	1980
aggggtttgtc	tgggcaccgt	cggggtagga	tccggaacgc	attcggaagg	ctttttgcaa	2040
gcatttacttt	ggaaggagaa	cttgggatct	ttctgggaac	ccccgcgcc	ggctggattg	2100
gccgagcaag	cctggaaaat	ggtaaatgat	catttggatc	aattacaggc	ttttagctgg	2160
cttgtctgtc	ataattcatg	attcggggct	gggaaaaaga	ccaacagcct	acgtgccaaa	2220
aaaggggcag	agtttgatgg	agttgggtgg	acttttctat	gccatttgcc	tccacaccta	2280
gaggataagc	acttttgcag	acattcagtg	caaggagatg	catgtttgac	tgtatggatg	2340
ttctgtcagt	gagtcctggg	caaatcctgg	atttctacac	tgcgagtcgg	tcttcctgca	2400
tgctccagga	gaaagctctc	aaagcatgct	tcagtggatt	gacccaaacc	gaatggcagc	2460
atcggcacac	tgctcaatgt	aggtttattt	ttttcccttc	t		2501

<210> 50

<211> 2501

<212> DNA

<213> Homo Sapiens

<400> 50

ggaggataga	aatataaatt	aaagaatgac	acaaataatt	ataaagttac	agctgttaaa	60
agaaaagcat	atggtgccaa	gagaacgtgt	aatacaagat	ctactcatgg	aggtgagggga	120
aagcttgccc	atcaaagaag	ttatgattca	atccacgaag	accaggagtt	ggctgggtga	180
agaaaaaaag	gtcagaggaa	ggaagtcac	actggggaag	gctctaagca	taaagggtag	240
gaggattaca	gaggcatatt	cacgaaattt	ggagaaggct	ttcagtaagc	aaggagaagc	300
caaatgaaag	tttacgggag	agttggaggc	ttgaagacac	gttcaaggat	ctggttttta	360
tcttctcttt	attctcaagag	cagtgggaag	ccattaaatg	attttaatca	gaggggtggg	420
ataactagtt	ttgtattttg	aaaagctgaa	ttcagctctc	gtttgagaaa	ctgagtga	480
gagcccagaa	cggccgtggc	tgagggtgac	tcgtgggaga	ctcctacaca	agccatggca	540
gtggcatggg	ctggtggcag	aagagggaat	agggagaaga	tttggaactc	aatcttcctc	600
cattgacaaa	gtcactccag	ctttggcaag	gcaattaatt	ggtgggaaag	aagatgccta	660
gccctcctga	tttcaactga	cttctgcat	cttcaacatg	agtactggga	agtggcaaaa	720
catccagagg	cagcttgggt	gctaggtgga	gcatgaagta	aaattccagg	atgaagcaaaa	780
tgaacactta	gaatgacagg	aaagatttgg	gagttgggtt	tgggggaggg	ctattttacct	840
ttattccctg	gagaccctgg	cacaaaccct	tgcccttgca	atcttcctct	caggtaaagg	900
aattcattaa	atgaattgct	agaagatcta	ctgaccagag	ggctgtacag	aatcatatct	960
ttgagagtgg	gaagtaggtt	gatcacatag	tttattatcc	aatcaggaca	tatctgaaag	1020
agaaaagggg	ttctattaat	atttaaaact	caaaaacatg	acaccaggaa	tgtcttgggc	1080
aaatctgggt	gccctagcaa	gaaaggaaat	ttgaaagt	atactgttct	gctccccatg	1140
taccccgttt	gcacatgaga	gggtaagt	tctctttctt	cacctgcatt	aagggaataa	1200
aagcacaagc	attcagggtga	ctcccaaccc	acttttaatt	ttacagtttc	tgctatactc	1260
tatacattct	gaaaattaca	tttcccacca	ctatcacttc	gtgatagggt	atcattttaca	1320
attactact	gactcagtc	cgggaagagg	cggtgcaaaa	tgggacgctc	tatccagggtg	1380
ctcattagaa	atgcagatc	tctgcctgcc	ctctagacct	actgaattag	aatctgcatt	1440
tttaataaag	atttccaggt	gatcaatatg	tacattaaaa	cttgagaaaa	acctctagac	1500
ttcgacctaa	agaaaaacat	tttacaactt	gacagtgtat	gcacatacat	acatgcatat	1560
agacacaact	gaagcaca	tttaatgaag	tagaatttac	cgttactatt	ttatttggga	1620
aagaaatgtg	ctcgcgactc	aatagattgg	agtattcact	cctggatctc	aacttgcaat	1680
ttgaaaacgc	atctctaaag	cacctaggag	caatctgaag	aaagctgagg	ggaggcggca	1740
gatgtttctga	tctactaggg	aaaacgtgga	cgttttctgt	tgttactttg	tgaactgtgt	1800
gcacttagtc	attcttgagt	aaatacttgg	agcgagggaac	tcctgagtgg	tgtgggaggg	1860
cgggtgagggg	cagctgaaag	tcggccaaag	ctctcggagg	ggctggtcta	ggaaacatga	1920
ttggcagcta	cgagagagct	aggggctgga	cgtcgaggag	agggagaaag	ctctcgggcg	1980
gagagaggtc	ctgcccagct	gttggcgagg	agtttcctgt	ttcccccgca	gcgctgagtt	2040
gaagttgagt	gagtcactcg	cgcgcacgga	gcgacgacac	ccccgcgcgt	gcacccgctc	2100
gggacaggag	ccggactcct	gtgcagcttc	cctcggcgcc	cggggggcctc	cccgcgcctc	2160
gccggcctcc	aggccccctc	ctggctggcg	agcgggagcc	acatctggcc	cgcacatctg	2220
cgctgccggc	ccggcgcggg	gtccggagag	ggcgcgcgcg	ggaggcgag	ccagggggtcc	2280
gggaaggcgc	cgtccgctgc	gctgggggct	cggtctatga	cgagcagcgg	ggcttgccat	2340
gggtcggggg	ctgctcaggg	gcctgtggcc	gctgcacatc	gtcctgtgga	cgcgatatcg	2400
cagcacgatac	ccaccgcacg	ttcagaagtc	gggtgagtgg	tccccagccc	gggctcggcg	2460
gggcgcgggg	ggtcttcctg	gggtccccgc	ctctccgctg	c		2501

<210> 51

82371.revisedsequence

<211> 2500
 <212> DNA
 <213> Homo Sapiens

<400> 51

ttcccatcaa	gccctagggc	tcctcgtggc	tgctggggagt	tgtagtctga	acgcttctat	60
cttggcgaga	agcgcctacg	ctccccctac	cgagtcccg	ggtaattctt	aaagcacctg	120
caccgcccc	ccgccgcctg	cagagggcgc	agcaggctct	gcacctcttc	tgcattctcat	180
tctccaggct	tcagacctgt	ctccctcatt	caaaaaatat	ttattatcga	gctcttactt	240
gctacccagc	actgatatag	gcactcagga	atacaacaat	gaataagata	gtagaaaaat	300
tctatatcct	cataaggcct	acgtttccat	gtactgaaag	caatgaacaa	ataaatctta	360
tcagagtgat	aagggttggt	aaggagatta	aataagatgg	tgtgatataa	agtatctggg	420
agaaaaacgtt	aggggtgtgat	attacggaaa	gccttcctaa	aaaatgacat	tttaactgat	480
gagaagaaaag	gatccagctg	agagcaaacg	caaaagcttt	cttccttcca	cccttcatat	540
ttgacacaat	gcaggattcc	tccaaaatga	tttccaccaa	ttctgccctc	acagctctgg	600
cttgcagaat	tttccacccc	aaaatgttag	tatctacggc	accaggtcgg	cgagaatcct	660
gactctgcac	cctcctcccc	aactccattt	cttttgcttc	ctccggcagg	cggattactt	720
gccccttactt	gtcatggcga	ctgtccagct	ttgtgccagg	agcctcgcag	gggttgatgg	780
gattgggggtt	ttccccctccc	atgtgctcaa	gactggcgct	aaaagtittg	agcttctcaa	840
aagtctagag	ccaccgtcca	gggagcaggt	agctgctggg	ctccggggac	actttgcggt	900
cgggctggga	gcgtgctttc	cacgacggtg	acacgcttcc	ctggattggg	taagctcctg	960
actgaacttg	atgagtcctc	tctgagtcac	gggctctcgg	ctccgtgtat	tttcagctcg	1020
ggaaaatcgc	tggggctggg	ggtggggcag	tggggactta	gcgagtttgg	gggtgagtgg	1080
gatggaagct	tggctagagg	gatcatcata	ggagttgcat	tgttgggaga	cctgggtgta	1140
gatgatgggg	atgttaggac	catccgaact	caaaagttaa	cgccctaggca	gaggagtgga	1200
gctttgggga	accttgagcc	ggcctaaagc	gtacttcttt	gcacatccac	ccggtgctgg	1260
gcgtagggaa	tccctgaaat	aaaagatgca	caaagcattg	aggtctgaga	cttttggatc	1320
tcgaaacatt	gagaactcat	agctgtatat	tttagagccc	atggcatcct	agtgaaaact	1380
ggggctccat	tccgaaatga	tcatttgggg	gtgatccggg	gagcccaagc	tgctaagggtc	1440
ccacaacttc	cggacctttg	tccttcctgg	agcgatcttt	ccaggcagcc	cccggctccg	1500
ctagatggag	aaaatccaat	tgaaggctgt	cagtcgtgga	agtgagaagt	gctaaaccag	1560
gggtttgccc	gccaggccga	ggaggaccgt	cgcaatctga	gaggcccggc	agccctgtta	1620
ttgtttggct	ccacatttac	atttctgcct	cttgacagcag	catttccggt	ttctttttgc	1680
cggagcagct	cactattcac	ccgatgagag	gggaggagag	agagagaaaa	tgtccttttag	1740
gccggttcct	cttacttggc	agaggggagg	tgctattctc	cgccctgcatt	tctttttctg	1800
gattacttag	ttatggcctt	tgcaaaaggca	gggtattttg	ttttgatgca	aacctcaatc	1860
cctccccctt	tttgaatggt	gtgccccacc	ccccgggtcg	cctgcaacct	aggcggacgc	1920
taccatggcg	tagacagga	gggaaagaag	tgtagcagaag	gcaagcccgg	aggcactttc	1980
aagaatgagc	atatctcatc	ttcccggaga	aaaaaaaaaa	agaatggtac	gtctgagaat	2040
gaaattttga	aagagtgcaa	tgatgggtcg	tttgataatt	tgtcgggaaa	aacaatctac	2100
ctgttatcta	gctttgggct	aggccattcc	agttccagac	gcaggctgaa	cgctcgtgaag	2160
cggaaagggc	gggcccgcag	gcgtccgtgt	ggctctccgt	gcagccctcg	gcccagagccg	2220
gttcttcctg	gtaggaggcg	gaactcgaat	tcattttctcc	cgctgccccca	tctcttagct	2280
cgcggttggt	tcattccgca	gtttcttccc	atgcacctgc	cgcgtagccgg	ccactttgtg	2340
ccgtacttac	gtcatctttt	tcctaaatcg	aggtggcatt	tacacacagc	gccagtgcac	2400
acagcaagtg	cacaggaaga	tgagtttttg	cccctaaccg	ctccgtgatg	cctaccaagt	2460
cacagaccct	tttcatcgtc	ccagaaacgt	ttcatcacgt			2500

<210> 52
 <211> 286
 <212> DNA
 <213> Homo Sapiens

<400> 52

tttgacttag	gctggaagtg	gccgccagtc	ccccgtgcaa	ttccattctc	tggaaaagtg	60
gaatcagctg	gcattgccc	gcgtgatttg	tgaggctgag	ccccaacagt	ccaaagaagc	120
aaatgggatg	ccacctccgc	ggggctcgct	cctcgcgagg	tgctcacc	gtatctgcca	180
tgcaaaacga	gggagcggtt	ggaaggaaat	cgctcttgtaa	agccattggt	cctgggtcatc	240
agcctctacc	caatgctttc	gtgatgctgc	tgctgatcta	tttggg		286

<210> 53

82371.revisedsequence

<211> 1400
 <212> DNA
 <213> Homo Sapiens

<220>
 <221> unsure
 <222> (1371)
 <223> unknown base

<400> 53

ttccagctgt	caaaatctcc	cttccatcta	attaattcct	catccaacta	tgttccaaaa	60
cgagaataga	aaattagccc	caataagccc	aggcaactga	aaagtaaata	ctatgttgta	120
ctttgatcca	tggtcacaca	tcataatctt	ggaaaaagtg	acagaaaaga	caaaagagtg	180
aactttaaaa	ctcgaattta	ttttaccagt	atctcctatg	aagggctagt	aacaaaaata	240
atccacgcat	cagggagaga	aatgccttaa	ggcatacgtt	ttggacattt	agcgtccctg	300
caaattctgg	ccatcgccgc	ttcctttgtc	catcagaagg	caggaaactt	tatatgtgtg	360
acccgtggag	ctcacattaa	ctattttacag	ggtaactgct	taggaccagt	attatgagga	420
gaattttacct	ttcccgcctc	tctttccaag	aaacaaggag	ggggtgaagg	tacggagaac	480
agtattttctt	ctgttgaaaag	caacttagct	acaaagataa	attacagcta	tgtacactga	540
aggtagctat	ttcattccac	aaaataagag	ttttttaaaa	agctatgtat	gtatgtgctg	600
catatagagc	agatatacag	cctattaagc	gtcgtcacta	aaacataaaa	catgtcagcc	660
tttcttaacc	ttactcgccc	cagtctgtcc	cgacgtgact	tcctcgaccc	tctaaagacg	720
tacagaccag	acacggcggc	ggcggcggga	gaggggattc	cctgcgcccc	cggacctcag	780
ggccgctcag	attcctggag	aggaagccaa	gtgtccttct	gccctcccc	ggtatcccat	840
ccaaggcgat	cagtcacagaa	ctggctctcg	gaagcgctcg	ggcaaagact	gcgaagaaga	900
aaagacatct	ggcggaaacc	tgtgcgcctg	gggcggtgga	actcggggag	gagagggagg	960
gatcagacag	gagagtgggg	actaccccct	ctgctcccaa	attggggcag	cttcctgggt	1020
ttccgatttt	ctcatttccg	tgggtaaaaa	accccgcccc	caccgggctt	acgcaatttt	1080
tttaagggga	gaggagggaa	aaattttgtg	ggggtacgaa	aaggcggaaa	gaaacagtca	1140
tttcgtcaca	tgggcttggt	tttcagtctt	ataaaaagga	aggttctctc	ggttagcgag	1200
caattgtcat	acgacttgga	gtgagcgta	ggagcacgtc	caggaaactcc	tcagcagcgc	1260
ctccttcagc	tccacagcca	gacgccctca	gacagcaaa	cctacccccg	cgccgcgccc	1320
tgcccgcgcg	tgcgatgctc	gcccgcgccc	tgctgctgtg	cgcggtcctg	ncgctcagcc	1380
atacaggtga	gtacctggcg					1400

<210> 54
 <211> 2501
 <212> DNA
 <213> Homo Sapiens

<400> 54

gataatcttt	tcatacaaga	tgcattctgc	ttttgtgggc	ctcttgagc	cctcaagccc	60
ccatctgatt	tgtacacaat	gatccagtgg	gccagaggag	cccagagcca	tgagcggccc	120
atccctccaa	gaactatttc	tgactgtcca	gtatcatgga	gcaagtggaa	agaagaaaaa	180
aaaaacccaa	ttacttttctg	aagagcaaga	tgaatgctgt	agaaggagaa	ggaaggggag	240
ggagatggat	gggtgccgat	tccagaatct	tcagatctgc	ttggatgaat	cattacctat	300
gatttgcggg	acaagaatct	gattttattc	atcaaccagt	agaaactttt	ctttctgcct	360
cccaacatct	gaaatccaac	aaacatgtgc	cttaggaaca	taccgggtcat	cttttagagg	420
cattttatat	acataattgag	taactagaaa	acactctttc	cgtaatacac	acacacacac	480
acacacacac	acaccatctt	gtcatacaac	actcccacgc	aagaaaaagc	aaactgctgt	540
ttgatgaatg	taaacacttg	gctgtttgca	gcagtcggga	gtcctgcccag	gtttaagtgc	600
taagatggga	gggtgaacccc	aggggtttcc	ccctgcccgt	gctgagatcc	ttatttgggt	660
aagcttctac	ctatgccctg	gcctcgagac	gagccccgata	gcgctggatc	acagcagagg	720
gagcgaggcg	gctgacgtcc	catcccgaag	agatgaatgg	aattccagga	agctagagtc	780
atgctggctt	gggacagtgg	cttgagagacc	agacttcaat	gacagaagca	ctaggcagcg	840
gcactcatgg	caatgtgtgc	acccacagaa	atgtaaccca	cacctcgggt	tcaggagccg	900
aaaaaatgaa	agaacgttta	gggaggaaaa	agggaaatac	aataataggc	agagagtaat	960
ttattactct	atgggtctgc	tctgtaaata	gctgaagact	ctggagccag	atgggtctgc	1020
aaattctcca	aacaggagtc	acgttaagaa	gcacgagtgg	gcacaaaaac	tgtttttcaa	1080
gacacaattt	caatttggct	tgtggaaact	ggatacgagt	aagtttcctt	aaaattcgag	1140
tagaaagcag	ctgtcctccc	cgggccccctt	gatgagaata	cgcacaccgc	ccccaagcgg	1200

82371.revisedsequence

ccggccgagg	gagcgccgcg	gcagcgggag	aggcgtctct	gtgggcccc	tggcagccgc	1260
ggcaggaaa	ggcccgaagg	cagcgaaggc	gaacgcggcg	caccaacctg	ccggccccgc	1320
cgacgcccgc	ctcacctccc	tccggggcgg	gcgtggggcc	agctcaggac	aggcgctcgg	1380
gggacgcgtg	tcctcacccc	acggggacgg	tggaggagag	tcagcgaggg	cccgaggggc	1440
agggtacttta	acgaatggct	ctcttggtgt	cccctgcgcc	ccgtcggccc	atttttcttt	1500
ttacaaaacg	ggcccagttc	ctagtatcca	cctctcgcca	tcaaccaggc	attccggggag	1560
atcagctcgc	ccgaaagccc	ctgcgccacc	ccgcggggcc	tcctaggtgg	tctccccagc	1620
cccgtccctt	ttcgggatgc	ttgctgatca	ccccgagccc	gcgtggcgca	agagtacgag	1680
cgccgagccc	gtgcgcgcca	aggctgcgtg	ggcgggcacc	gacttttctg	agaagttcta	1740
gtgctcccaa	gccccgaccc	ccgccccctt	cacttttctag	ctggaaagtt	gcgcgccagg	1800
cagcgggggg	cggagagagg	agcccagact	ggccccacc	tcccgttcc	tgcccggccg	1860
ccgcccattg	gcccggaggaa	tccccaggaa	tgcgagcgcc	cctttaaaag	cgcgcggtc	1920
ctccgccttg	ccagccgctg	cgcccagact	ggcctgcgag	ttcagggctc	ctgtcgtct	1980
ccaggagcaa	cctctactcc	ggacgcacag	gcattccccg	cgcccccca	gccctcgccg	2040
ccctcgccac	cgctccccgg	cgccgcgctc	cggtacacac	aggtaagtcg	cccccgccgg	2100
ccgccgagga	ccaaagctgc	ccgggacatc	cacctggagc	gctgaggctt	cagtccctct	2160
ggtggacccc	ggaacctaca	ctctccccgc	tcgcctaccc	cagcccgtc	ctctcagccg	2220
ctggaggact	cttcagggca	aggctccaga	gccatcctct	ccagccttga	ggttcacaaa	2280
ccaactcatc	aggacacccc	aagatttctt	tactctctga	agtcctcctt	aagcctttgt	2340
atcagcactc	cagggaagag	tctgtacttc	ccctgccctc	cctgcaaccc	caaactacag	2400
ttcctgatct	tgctcacctt	cgacttccca	aaagccccca	aattgttggt	cttgcgcccc	2460
ccacacttta	aaaccagcat	ctctttcctc	cacctctctc	t		2501

<210> 55

<211> 7258

<212> DNA

<213> Homo Sapiens

<400> 55

ttcaatagga	agcaccaaca	gtttatgccc	taggactttg	ttcccacaat	cctgtaacat	60
catatcacga	cacctaaccc	aatccttatt	aagccctgtc	aaaaacggac	tttaaaccac	120
gctgcaaatt	ttcagtaatc	tggccttgcc	tttccccctc	tgatagcacc	atcaaacaaa	180
cccccttact	gccgaaagca	ataagcccgg	ctttgttcca	tccactgggt	gtgttggtga	240
tatctgggga	ctgccactga	acagacgcac	agagggagcc	cctacaggca	gggggttttc	300
tgtctgtgct	ctttgggaga	gtatgtctcg	tacatttgtc	gcgtgatgaa	gacttcacag	360
ttccatccag	cgaccagact	cacagctcca	tccagctgcg	gcaagggggg	ctgaggcagt	420
cttaggcaag	ttggggccca	gcgggagaag	ttgcagaaga	actgattaga	ggaccaggga	480
ggcttcagag	ctgggctgag	gtagagagtc	tcctgtgcgc	cttctctcct	ctctgcaatt	540
cggggactcc	ttgcaactgg	gcaggccccg	gcagggtgat	gggaggaagc	acggagaatt	600
tacaagcctc	tcgattcctc	agtccagacg	ctgttgggtc	ccctccgctg	gagatcgccg	660
ttcccccaaa	cttttgtgag	cggtgcggaa	gcacgcgggg	tccgggtcgc	tgagcgctgc	720
aagacagggg	agggagccgg	gcgggagagg	gcggggcgcc	gccggggcgg	gccctgatat	780
agagcaggcg	ccgcgggtcg	cagcacagtc	ggagagccga	gcccggagcc	cggggccagg	840
tccacctgtc	cccgcagcgc	cggtcgcgc	cctcctgcgc	cagccaccgg	tgagtgcgc	900
ggtcctgaga	tccccggggc	ggatgcgcgg	cggccccagc	tcccagagcg	ctgcctgccc	960
cgccctgggc	tgcccgggct	ccctgggctc	cccggcggtc	gcacggagtc	aaggcgcccc	1020
gtcccgggag	tccccgcggg	gtgccgatcc	aggctgcccc	gagtccggag	cccatagagg	1080
agagagacag	ctgggggagcc	tggtcacccg	gggcattctc	cctgcgctgc	agtcgcccgc	1140
ctggcctgcc	ttcccggttc	tccgcctctt	gccctgactt	ctccttctct	tgagagcccg	1200
ccgtctagcg	ccccgacctc	gccaccatga	gagccctgct	ggcgcgcctg	cttctctgcg	1260
tcctggctgt	gagcgactcc	aaagtgaagt	cgctcttgct	ttgactgatg	ctgcccagg	1320
acctctgatc	agcaccaggg	gagaggaggg	gctgctcagg	gagctggggg	ctccggattc	1380
catccacagc	agggccagac	tctccccagg	aaatgggaga	gggtggcagc	ggaggcttga	1440
gaaccacggg	ggttggcact	ggctggcaag	ggagggaagag	ggccaccggg	actgccccag	1500
cctgcgggca	tctggtagat	gaagcttaat	ccatttctcc	tggctggaaa	ccatggtctt	1560
ccatttgaga	actagatacg	aacagggtga	ggcgagaggg	agagggaaga	gtgggttttg	1620
ggattggggc	cagtttacct	tcaccctgga	tccctggagc	atgggacctt	tgatgaagcc	1680
tcctcccgaa	tctcttccag	ggcagcaatg	aacttcatat	agttccatgt	gagtatccac	1740
ccctacaaca	gttggtctga	cagacaagtt	gggaaggctt	caggggacac	tccccctcct	1800
gccctctgct	gcagcgctgc	ccacccttta	ccacttccac	tccccctcgc	ttaccctacc	1860
tttgttctct	ccagcgaact	gtgactgtct	aaatggagga	acatgtgtgt	ccaacaagta	1920
cttctccaac	attcactggg	gcaactgccc	aaagaaattc	ggagggcagc	actgtgaaat	1980

82371.revisedsequence

aggtatgggg	atctccactg	caactgggag	agaaatttgg	ggacagggag	ggatgggtgg	2040
gaggaagag	caggcaggag	ttaggagctg	gaggtagggt	gggtgacatc	ttcattcccta	2100
tgtgacaagc	ataaacacac	acacacgctc	acgaaaacagt	ggccacacaa	atgtgaggtg	2160
gggttggaag	gagaccctgt	ccagtcttct	ggcaggctctg	aaacgacatc	tttaaaatgt	2220
ccgttggcag	ccgggcatgg	tggctcacgc	ttgtaatccc	agcattttga	gaggtcaagt	2280
ttgagtggat	catttaggtc	aggagttaa	gaccagcctg	gacaacatgg	tgtaaccttg	2340
cctctactaa	aaatgcaaaa	atcagcctgg	catggtgggtg	gatgcctgta	gtcccagcta	2400
cttgggaggc	tgaggcagga	gaattgcttg	aacatgggag	gccagatctc	agtgaagctga	2460
gatcacacca	ctgcactcca	actgggcgac	agagcaagac	tccatctcaa	aaaaaaaaaa	2520
aaataaaagt	tagttggaat	gttcttctct	ttctcatatt	ctctcatcct	cctgtccccct	2580
tgtagataag	tcaaaaacct	gctatgaggg	gaatgggtcac	ttttaccgag	gaaaggccag	2640
cactgacacc	atgggcccggc	cctgcctgcc	ctggaaactct	gccactgtcc	ttcagcaaac	2700
gtaccatgcc	cacagatctg	atgctcttca	gctgggcctg	gggaaacata	attactgcag	2760
gtgaggtggg	ggcagaaggg	accaaaagcc	ctccctacag	cttcccagaa	accttggtac	2820
catccccctt	tcccagaggg	ctggccatag	cacaagagaa	gtgcggcctc	tgggtgagtc	2880
ttccctgagg	ggaggaggca	gggaaggccc	tctgggttgg	aatgacatcc	cctatctttc	2940
tgtgtttgtg	caggaacca	gacaaccgga	ggcgaccctg	gtgctatgtg	caggtggggc	3000
taaagccgct	tgtccaagag	tgcattggtg	atgactgcgc	agatgggtgag	catcactgac	3060
ctgctgatga	caggtgggtg	gaaggggaca	aacttacatg	tccccctatt	ccatcacagg	3120
aggagtggag	agggtggggg	tgcccagag	ggatgctttc	tcctacctgc	ctcccctaaga	3180
catccccctg	tttgtccctc	aggaaaaaag	ccctcctctc	ctccagaaga	attaaaaattt	3240
cagtgtggcc	aaaagactct	gaggccccgc	tttaagatta	ttggggggaga	attcaccacc	3300
atcgagaacc	agccctgggt	tgcggccatc	tacaggaggc	accggggggg	ctctgtcacc	3360
tacgtgtgtg	gaggcagcct	catgagccct	tgctgggtga	tcagcgccac	acactgcttc	3420
atgtacggcc	ctgggtttct	cctcttcgac	tcttctgccc	caccccaagc	acatcccttt	3480
ctccttccca	gcaaagtgtt	ccgcctcatt	tctccctcat	ctgcccctgt	ccatgcgccc	3540
atggccttgg	ggacaagtcg	tgctttgagg	cctctaggga	gggaagggaag	aagtggcatg	3600
atttcatggg	actaagctgt	ttgatgggta	tcttcttcca	cagtgattac	ccaaagaagg	3660
aggactacat	cgtctacctg	ggtcgctcaa	ggcttaactc	caacacgcaa	ggggagatga	3720
agtttgagg	ggaaaacctc	atcctacaca	aggactacag	cgctgacacg	cttgctcacc	3780
acaacgacat	tggtaggggg	gaacgcccgc	gactactgtg	gccataatgg	cttggggaga	3840
gtggggacca	gggagagact	ggagctgagt	tgaagctgcc	gggtggggcag	gggtggggcg	3900
agggaccttg	aagcctcgat	atacatgaca	aaggatggca	gggaagagtt	ccatgaagtc	3960
tgaggggcct	ggtgctcctc	tggagagacc	ctgaatttcc	ccaacaagta	gccctcttgc	4020
gagtggaaac	agccctgtgg	gtatatggct	tgggctggga	aggccctggt	tatatgaatt	4080
agaaaaagac	acaccttcct	ttgtgggatg	cagcctctgt	ctgtgctagg	atatagaact	4140
tggagaatgg	agccttggga	tggaattccag	cctaactacc	tcagggggat	cctctagagt	4200
gcagctggga	gtttttggag	aaacgacctg	cacagctgta	tgcagtggct	ctggccatcc	4260
aagccttttt	caacacctgg	aacaaagccc	ttggggcatg	gggcagggga	ggtttccagg	4320
tgataagcga	ccagcagacc	tccctggatg	actgacctag	ggataggcat	agctacttcc	4380
tcggcacttg	gagggggacag	atggggaccg	cctaaccagt	agtgaatctt	ctcctctgac	4440
cctctgtcct	cccccagcct	tgtgaagat	ccgttccaag	gagggcaggt	gtgcgcagcc	4500
atcccggact	atacagacca	tctgcctgcc	ctcgatgtat	aacgatcccc	agtttggcac	4560
aagctgtgag	atcactggct	ttggaaaaaga	gaattctagt	aagtgaacaat	tgcgactgac	4620
ttagaaggct	ctgaggagtg	ttttgacctg	aaaatgagcc	cagtgtgatc	aagggaagac	4680
tgcagagtta	gaggtgggag	cactgaggcg	gtggcagatg	ggtccaggga	tggatgaaga	4740
gtgttgttta	gggagcgatg	ggctgcaaa	gtaaatagat	ggtaggggct	ataggtggag	4800
gtaaatggct	cagatttgca	tggagagaga	ataatgggcc	tctccctggg	tgatgatact	4860
ttatgggtgc	ccctctctgg	cgagacgtcc	cacgtggagg	cagataaatc	ttgatgcaaa	4920
cgctccctg	ttttctccac	ctagccgact	atctctatcc	ggagcagctg	aaaatgactg	4980
ttgtgaagct	gatttcccac	cgggagtgtc	agcagcccca	ctactacggc	tctgaagtca	5040
ccacaaaaat	gctgtgtgct	gctgacccac	agtggaaaac	agattcctgc	caggtgagtg	5100
ttccaagcat	ctctctccac	ctcttccata	tctccccaga	gctcctgggc	ttgttccagc	5160
cagcttaagg	gtgtctctct	ctagccaaag	ccctaagtag	ccagaatcag	gagctcaggt	5220
ctttgagggg	ttaaacagac	ccttatgtgt	ttgccagaca	ttaccaaaaa	aatcccagct	5280
ctgcgctagt	cacttcagac	tgggggcacg	agatcctaga	aagaggaaac	agtaaaagac	5340
aatgtaactc	agtgtccagg	gtgtgtttgt	aactataaat	gatcaggtgt	tcaggagagg	5400
gaggtgagtg	ccaacctgag	ggtcaggggag	gggaggcttt	aaaggaaatg	tgacttgata	5460
ggcatttgaa	gaggcagagg	gaagaaaagg	aggtgtttca	gttgaaagat	acaaaactga	5520
gaaggaggct	ggcatatttc	gggtggggag	gagaactagg	gtctgggagt	gtggatggaa	5580
tagtgggcaga	tgacaggggt	tttaaaagcca	atgcaggtag	tttccaactt	cgatgtggta	5640
gaaatggggc	tgcgtcaggc	acagtggctc	atgcctgtaa	tcccagcatt	gggctaggcc	5700
gtagtcgatg	gatcattgag	gccagagttg	agaccggcct	ggaccaacat	ggtgaaaccc	5760

82371.revisedsequence

tgtgtctact	aaaaaatgca	aaaaaaaaaa	ttagccaggt	gtggtggtgc	ctgcctgtaa	5820
tcccagctaa	tcaggaggct	gagacatgga	atcgcttgag	cacaggaggc	aagtttgacg	5880
tgagctgaga	tcacgtcatt	gcacgccagc	ctgggcgaca	gagcgagatt	ctgtcctccc	5940
gccgaaaaaa	gaaagaaaaa	gggaagtcgc	taaggacttt	gactgggaaa	ctcttccctc	6000
tctctggtat	ggttgggtga	tgggatcaga	aatcccctcc	tcacttctct	agggctcatc	6060
ttttgtatct	ttggcgtcac	agggagactc	aggggggacc	ctcgtctgtt	ccctccaagg	6120
ccgcatgact	ttgactggaa	ttgtgagctg	gggccgtgga	tgtgccctga	aggacaagcc	6180
aggcgtctac	acgagagtct	cacacttctt	accctggatc	cgcagtcaca	ccaaggaaga	6240
gaatggcctg	gccctctgag	ggtccccagg	gaggaaacgg	gcaccacccg	ctttcttgct	6300
ggttgtcatt	tttgcagtag	agtcatctcc	atcagctgta	agaagagact	gggaagatag	6360
gctctgcaca	gatggatttg	cctgtgccac	ccaccagggt	gaacgacaat	agctttaccc	6420
tcaggcatag	gcctgggtgc	tggctgcca	gacccctctg	gccaggatgg	aggggtggtc	6480
ctgactcaac	atgttactga	ccagcaactt	gtctttttct	ggactgaagc	ctgcaggagt	6540
taaaaagggc	agggcatctc	ctgtgcatgg	gtgaaggagg	agccagctcc	cccgcgggtg	6600
ggcattttgtg	aggcccatgg	ttgagaaatg	aataatttcc	caattaggaa	gtgtaacagc	6660
tgagggtctct	tgaggggagct	tagccaatgt	gggagcagcg	gtttggggag	cagagacact	6720
aacgacttca	gggcagggtc	ctgatattcc	atgaatgtat	caggaaaata	atatgtgtgt	6780
gtatgtttgc	acacttgtgt	gtgggctgtg	agtgtaaagt	tgagtaaagag	ctggtgtctg	6840
attgttaagt	ctaaatattt	ccttaaaactg	tgtggactgt	gatgccacac	agagtggctt	6900
ttctggagag	gttataggtc	actcctgggg	cctcttgggt	ccccacgtg	acagtgcctg	6960
ggaatgtact	tattctgcag	catgacctgt	gaccagcact	gtctcagttt	cactttcaca	7020
tagatgtccc	tttcttggcc	agttatccct	tccttttagc	ctagttcatc	caatcctcac	7080
tgggtgggggt	gaggaccact	ccttacactg	aatatttata	tttactattt	tttatttata	7140
tttttghtaat	tttaataaaa	agtgatcaat	aaaatgtgat	ttttctgatg	acaaatctcc	7200
ctggtgcttg	tatgggaagg	agttggagta	cataaaaagg	agaaaataac	aaaggtgg	7258

<210> 56
 <211> 852
 <212> DNA
 <213> Homo Sapiens

<400> 56

cagctgcgct	ggaggctgag	gccgattgct	tgagcccagg	atttgagggc	cagcatgcgc	60
aacataatga	gacccagctc	ctaaatgcat	gcctctctat	atattaaaaa	tctgatgtga	120
aaataattta	aaatttaata	catttcaaat	gtttttaatt	gtataataaa	caaaatgtaa	180
ataataaaaat	aattttaatat	taaattcaaa	aatgaggtag	aaacaaagca	cagcgatata	240
aataataaat	tttcctttac	atttttgagg	cggctctttg	agttttggat	ttccttctta	300
ggctactgaa	atgtgtcctc	tggagccagc	ccgcaaatac	cgcatttaga	aaaacataac	360
tatacactcc	taaccctaag	tattagaagt	gaaagtaatg	gaatctcgat	gtaaacacaa	420
tatcactttt	ttgtagagct	atttttgagta	taataaaatt	gaactgtgcc	aatgctggga	480
gaaaaaaattt	aaaagaagaa	cggagcgaac	agtagcttcc	tcgtccgctg	actagaaaca	540
gtaggacgac	actctcccga	ctggaggaga	gcgcttgccg	tcgcactcag	ttggcgcccg	600
ccctcctgct	ttttctctag	ccgccctttc	ctctttcttt	cgcgctctag	ccacccggga	660
aggcactgcg	gtagctgggc	tctgattggc	tgctttgaaa	gtctacgggc	tacccgattg	720
gtgaatccgg	ggcccttttag	cgcggtgagt	ttgaaactgc	tcgcacttgg	cttcaaagct	780
ggctcttgga	aattgagcgg	agagcgacgc	ggttgttgta	gctcgctgcg	gccgccgcgg	840
aataataagc	cg					852

<210> 57
 <211> 2501
 <212> DNA
 <213> Homo Sapiens

<400> 57

tcttgtcact	ccatgcactg	tggtccgtat	gctaaatagt	ttgagaaacc	caaatgggccc	60
atgttcgcct	acatttcatc	gtcctgtact	tcctgtcctg	tactagcaaa	gcagtgcccat	120
tggcttttct	tctcctcatt	aacaataaag	gtaacacttt	tgatgttggt	tcttcagaaa	180
accttcttcc	tctcaaaactg	cctcaaagat	catgttttgt	tgattccaga	acttccctgta	240
attacctgtt	attgtaacac	tcatcactgt	attttactta	cttgtgtaac	taattttcca	300
tattctgcac	tagacaacaa	agtcctttta	gtcaggtagt	ataatctatt	acatagcatt	360
cacatctcct	acaataaagg	acattagcag	ataaacaaca	catattaaat	gaataatgaa	420

82371. revisedsequence

gtttctgaaa	tactacagtt	gaaaactata	ggagctacat	tatatagaat	aaacattttac	480
tttgctatag	aattcagtgt	aacccaggca	ttattttatc	ctcaagtcct	aggttggttg	540
gagaaagata	acaaaaagaa	acatgattgt	gcagaaacag	acaaaccttt	ttggaaaagca	600
tttgaaaatg	gcattccccc	tccacagtgt	gttcacagtg	tgggcaaatt	cactgctctg	660
tcgtactttc	tgaaaatgaa	gaactgttac	accaagggtga	attattttata	aattatgtac	720
ttgcccagaa	gcgaacagac	ttttactatc	ataagaaccc	ttccttggtg	ctctttatct	780
acagaatcca	agacctttca	agaaagggtct	tggattcctt	tcttcaggac	actaggacat	840
aaagccacct	ttttatgatt	tggtgaaatt	tctcactcca	tcccttttgc	tagtgatcat	900
gggtcctcag	aggctcagact	tggtgtcctt	ggataaagag	catgaagcaa	cagtggctga	960
accagagttg	gaacccagat	gctctttcca	ctaagcatac	aactttccat	tagataacac	1020
ctccctccca	ccccaaccaa	gcagctccag	tgcaccactt	tctggagcat	aaacatacct	1080
taactttaca	acttgagtg	ccttgaatac	tgttcctatc	tggaatgtgc	tgttctcttt	1140
catcttcctc	tattgaagcc	ctcctatttc	tcaatgcctt	gctccaactg	cctttggaag	1200
attctgtctt	tatgcctcca	ctggaattaa	tgcttagta	ccacttgtct	attctgctat	1260
atagtcagtc	cttacattgc	tttcttcttc	tgatagacca	aactctttta	ggacaagtac	1320
ctagtcttat	ctattttctag	atccccaca	ttactcagaa	agttactcca	taaatgtttg	1380
tggaactgat	ttctatgtga	agcacatgtg	ccccttcaact	ctgttaacat	gcattagaaa	1440
actaaatcct	ttgaaaagtt	gtagtatgcc	ccctaagagc	agtaacagtt	cctagaaact	1500
ctctaaaaatg	cttagaaaaa	gatttatttt	aaattacctc	cccaataaaa	tgattggctg	1560
gcttatcttc	accatcatga	tagcatctgt	aattaaactga	aaaaaaaataa	ttatgccatt	1620
aaaagaaaat	catccatgat	cttggttctaa	cacctgccac	tctagtacta	tatctgtcac	1680
atggtactat	gataaagtta	tctagaaata	aaaaagcata	caattgataa	ttcaccaa	1740
tgtggagctt	cagtatttta	aatgtatat	aaaaattaaat	tatttttaaag	atcaaagaaa	1800
actttcgtca	tactccgtat	ttgataagga	acaaatagga	agtgtgatga	ctcaggtttg	1860
ccctgagggg	atgggcatc	agttgcaaat	cgtggaattt	cctctgacat	aatgaaaaga	1920
tgaggggtgca	taagttctct	agtaggggtga	tgatataaaa	agccaccgga	gcactccata	1980
aggcacaac	tttcagagac	agcagagcac	acaagcttct	aggacaagag	ccaggaagaa	2040
accaccggaa	ggaaccatct	cactgtgtgt	aaacatgact	tccaagctgg	ccgtggctct	2100
cttggcagcc	ttcctgattt	ctgcagctct	gtgtgaaggt	aagcacatct	ttctgacct	2160
cagcgttttc	ctatgtctaa	atgtgatcct	tagatagcaa	agctattctt	gatgctttgg	2220
taacaaacat	cttttttatt	cagaaacaga	atataatctt	agcagtcaat	taatgttaaa	2280
ttgaagattt	agaaaaaact	atatataaca	cttaggaaag	tataaaagtt	gatcaatata	2340
gatatttctgc	ttttataaatt	tataccatgt	agcatgcata	tattttaacgt	aaataagtaa	2400
tttatagtat	gtcctattga	gaaccacggt	tacctatatt	atgtattaat	attgagttga	2460
gcaaggtaac	tcagacaatt	ccactccttg	tagtattttca	t		2501

<210> 58

<211> 2501

<212> DNA

<213> Homo Sapiens

<400> 58

attaatttctg	caaatTTTTaa	taaatgcttt	attttaagct	aaatgctgag	atgaaaaaat	60
gaaaccatat	gagttagcaa	agtagaaaat	atagggcatat	taatcagtaa	atgcagaatg	120
ataaatgctc	catcaatatg	cacttgttgt	agtgaaggcca	ccgaggagg	tgcaatcctc	180
tcaacctggg	aggagcagg	aggacttcag	atgtcatcca	actcaaagat	atagtgaagg	240
acttgatcaa	acatttgcca	agaccactat	gagttaaatg	aatagattag	gcatttctcc	300
aatgtttgcaa	gcttcgaatc	atatccaaac	tcagaacaac	atagcttggt	cataatgatc	360
ccaaggatcc	tattggccat	tgtctttgag	cctcaaagga	acataattaaa	actccataat	420
acccittttga	tctattctga	agttaagtag	tgaatttaca	tgatgatgac	acaaacactg	480
taaaggacct	ctgggttact	tgttttataag	ctagtatttc	ctgaatcaat	ttttctgatc	540
cctagatatt	tggtaggtga	agtcataacct	atatatcccc	acaccctaga	acagcatctc	600
caactttattt	ttccctcctt	gtcttttagt	gggagccaca	tcagtatcca	agaggagatc	660
cagaagcctc	tccaaccagg	tagggacagt	tatagattcc	agacctcagc	tatggccttt	720
gttacagagt	acaaatgtta	tatagtacaa	gtttatttga	cacatcccat	tgagtctctg	780
agcttttagaa	ttttcttgta	gaatttaaca	gttttttcat	gccgtattta	catattattg	840
ctagtattta	gaattttctt	ctccaaatgt	ataacgttta	ttattgcatt	ttttgtatcc	900
actaagtgga	aaatcatgca	ttagatattg	tagaagtaga	tacaacaatg	aacaagaact	960
ggctctgacc	atgagaggaa	ctgatgatcc	aatgggggag	atagacctgc	acgtgtttaa	1020
taaaagggaag	tggctattcc	ggtttctttt	tgatgggcaa	gcatttttga	aggccttggg	1080
ctatgtgtgt	gcaaggctaa	gccagttagt	taattgggat	tttttttaaaa	aggcacttca	1140
ctgggggggaa	aagggaacata	gagttgggtta	ttgtcccctt	gcctataata	aaaacctatt	1200

82371.revisedsequence

atttttaatt	ttttaactgg	gtttgcggtt	aaatctcaca	gccaagaga	tttgccactt	1260
cagatggatt	ccatacactt	gcatttaagt	atgcaaaaaa	attccaatta	tccagcaatt	1320
taaccaaatt	attggtaact	tttctaaaaa	aaaaaaaat	tgtttccctt	gttttggcag	1380
caatttcagt	tacagtcctt	tactttctac	tcaagaaaaa	agtttcaaaa	agttgatggt	1440
tgttgctaaa	agaactat	ttatgaataa	atataaaact	aagaagttat	ggtgtccctt	1500
ttttaaaaaa	tgactcatca	aaagaaataa	ctttttcctt	tctcttgtaa	gagaaaaaaa	1560
ttaatctctt	ttagaattgc	aaacatat	ccttgatgga	gaaaatcaat	tcacatggca	1620
tagtcggtat	ttatccagtt	caaaaaccag	agtagaattt	actactctgt	ctccattttt	1680
tctctcccca	cccccttaac	ccacattgga	ttcagaaaagc	ttcattctgc	aatcagcatt	1740
gtcctttatc	tttccagtaa	agatagcctt	ttggagtcga	agatgaggaa	aagcctgtat	1800
tttatagtc	tggaagtgtc	ttcttttgcc	aggacagaga	gaggagcttc	agcagtgaga	1860
gcaactgaag	gggttaatag	tggaacttgg	ctgggtgtct	gttaaacttt	tttccctggc	1920
tctgccctgg	gtttccctt	gaagggattt	ccctccgcct	ctgcaacaag	accctttata	1980
aagcacagac	tttctat	actccgcggt	acttgcactg	ggcctcactg	gcttcaggag	2040
ctgaataccc	tcccaggcac	acacagggtg	gacacaaata	aggggttttg	aaccactatt	2100
ttctcatcac	gacagcaact	taaaatgcct	gggaagatgg	tcgtgatcct	tggagcctca	2160
aatatacttt	ggataatgtt	tgacagctgt	aagttatttc	ccttcatctg	tttcaaatgt	2220
tagcattcaa	ttttagccct	ggttttggct	tcagtcagtt	ttgcgatagt	agtgaagtaa	2280
agacactagg	attttaaaca	gtaggaaaag	ttaatttagt	ctaactttta	atatgcaatt	2340
gagttttgt	atataccatt	gtactgtcat	agtttagagct	gaaaattgat	gtttttggta	2400
tctttttttc	caaaggcaat	tgagtaattt	ggattctgtc	tctagtcggt	ctgtctcttt	2460
agtttcttat	acttgacaat	gagggtcaaac	ttagcaataa	a		2501

<210> 59
 <211> 2501
 <212> DNA
 <213> Homo Sapiens

<400> 59

ataaaaaaag	acatgaaatg	aatcggggaa	aatatttgct	acataactaa	gaatgaaggc	60
cttaataaaa	atctgtaaaa	ctatacacac	ttttaggaat	gaatcaacaa	ataatttcta	120
tgaattagaa	aaaagtgaca	atccaactaa	aaaatgaata	agggatataa	gcaatgtgtt	180
tcacagaaaa	aataaaaatt	gacaatgaag	ttatgaaaaa	atgttcagtc	tccttagtaa	240
ttgcacaaaa	caaactaaaa	caatgagaca	ttacccttaa	gatttagtaa	tgttaaagaa	300
aaataataat	tggtgagggg	gtgggggaag	gggcacttac	acctatgttt	ggaaatataa	360
attggtgcaa	ctttataggg	agagcaatct	cacaacattt	tccaaagact	tacatgcaca	420
accctatggc	agagaaaatt	attcctcttc	caggattttt	tttccttcaa	aaacagtgat	480
gtggatgaaa	aacacatgtt	cactactgca	cagggtataa	cagctgaaaa	ctggaaacga	540
taatactcac	attcccttca	gtaggggaa	ggttaaataa	attttacaag	ccatctggta	600
gataccaggc	atgagctaaa	agttagggtc	cagttagaga	tggaaagcac	accagtaatt	660
tgaaagggaa	aatgtaatat	gaagaattat	taactagtaa	aagaaggcta	actgctaaag	720
gtacaagagc	actcaagctg	tctgcagtca	gcaggccctg	gctgggtgagc	aggaagctgc	780
ccgctgggag	gctgccaaag	ttccctgaag	gtgagcacca	ctgggttctac	aagctgctgg	840
cagtcatggc	gttaagagca	ggaagagaag	caccagaacc	cggagagaaa	atccagtcct	900
ctgctaggcc	ttgcaccgtc	cctctggcgc	cctctactga	caaagccagt	aaaattgtgc	960
cgctagcaaa	ggagatcttt	ttatgggatg	tagcttggtg	tcaccaaaaga	gaacagagtg	1020
gacttgagag	tcagatgcaa	cacaatgatt	gatactggca	cagtatactt	accctgtctt	1080
tgtaaacaaa	atggtatatg	tgatgtctct	ctttgtctct	ctgtatataa	aacaatat	1140
gtttctactt	attatgtatt	tatgtcttta	ctctgcatgc	caggagctaa	gtattttgca	1200
tgtattaact	cattttgttc	tcataataac	cttcacatgc	aggaatcatt	atagctactt	1260
tatgaatgag	ccgaggaagg	cactgagacg	ttaagtaact	tgcccaagggt	cacgcagcta	1320
gtaagtggca	gagcaagaat	tactatggct	ttataagcct	aggaaaaagt	ctgaaagaat	1380
caaatgttta	acagcgggga	cctcaaggaa	gcattgaaga	ggccatggga	gaagttttca	1440
ctttgttaaa	aaatcagctc	ttcaaatata	tataatacag	gaggcttccc	cagaagcaga	1500
tgctactatg	cttcctgtac	agcctgtgga	actgtgagcc	agttaaacct	cttttcttta	1560
taaattatcc	agtcttaggt	atttctttat	aacagtgtca	ggatgagctg	atacagtttc	1620
ctacactgta	acctaaggca	atgcttttga	caaaggggatg	agccagattg	cttagtaatt	1680
aaaacgcaaa	tacaaaccac	aagcatatcc	attcatgaat	tggggggctg	ctttgtgtgc	1740
atagataagg	tatatTTTTT	aaaaaaatta	tttttccaag	aagaaaaata	accagttaat	1800
aaacgacaac	tcacagtgcc	aggaagtggg	aaacaagtgt	gtgataaacg	gtggagaaatg	1860
ggagcactct	ccgcagtggg	cgggaggaga	cgaggagggc	gttccctggg	gagtggcagt	1920
ggttggagca	aagggttggg	ggaggtaagt	catgtgtctt	gagtttttgg	tttctgtttc	1980

82371.revisedsequence

accttgtgtc	tgagctggtc	tgaaggctgg	ttgttcagac	tgagcttcct	gcctgcctgt	2040
accccgccaa	cagcttcaga	agaagggtgac	tggtggctgc	ctgaggaata	ccagtgggca	2100
agagaattag	catttctgga	gcatctgctg	tctgtgagat	taagcactat	gtatattgct	2160
ttattcactc	cccacagcaa	ccttaccaaag	cagtctcttt	ccacgtgaaa	agatggaggc	2220
tgggtggagc	aaaaggaggt	atttagagtc	ctcagcaagt	gagaggcaga	gctgggattt	2280
gaatccagat	ctgcctgata	ctgaagtcta	ggctggttcc	acctctccgg	actgctttcc	2340
agggagtaga	agacagatat	tttaccttag	ctggctgctt	ctagaagtct	gaccctgctg	2400
gctcaaaacg	acttttagttc	cttgcccaga	ggctgcgggc	tgcggtcaaa	gacatcagta	2460
gaaggagggc	ccagccagag	aggctgacat	gggcttctac	t		2501

<210> 60

<211> 2501

<212> DNA

<213> Homo Sapiens

<400> 60

cgggcaggaa	taatcactgc	ctcccatccc	cttaaacatg	ccaagatgct	ttatccctag	60
gatgagggtga	cttactccag	gtaactccta	ttgcctaacc	actgaccaat	tactctgccc	120
tttagtcttt	atgtcattaa	atctgcatta	agaatttcat	ggaataggcc	cgcatgggtg	180
gctcatgcct	gtaatcccag	caccttggga	gaccgagggtg	ggaggatcac	ttgaggtcag	240
cagttcgaga	ccagcctgga	caacatggcg	aaaccccatc	tctactaaaa	acacaaaata	300
actagccagg	tgtggtgggtg	ggcacctgta	atcccagcta	tttgggaagc	tgaggcagca	360
ggagaatcgc	ttgaactggg	gaggcagagg	ttgcagttag	tcgagatcgt	gccagtgcac	420
tccagcctgg	gcgacagagc	gagactctgt	ctcaaaaaaa	aaaaaaaaaa	aaactcaggg	480
aatggatagc	agcattgatg	aatattgctg	ctggagagat	cagatcactt	gtcacttggt	540
tccaggcaca	gggcttacca	agaggcagat	tccagattta	aataattctg	taacagcaaa	600
gtccaagcta	ttttcactgc	tttgagagaaa	agaccagac	ccagagcttg	aacctcactt	660
tgcagcaccc	cagttctaata	cttttaagtt	tttttttttt	tttttttttt	tttctgctgg	720
gcacggtggt	tcatgcctat	aatcccagca	ctttgggaag	ccgaggggga	aggatcgctt	780
gaggccaggga	gttcgaaaac	agtctgggca	acatggcaaa	accccatctc	tacaaaaaat	840
acaaaaatta	ggccagagtg	gtggcgcgca	cctgtagttc	cagctacgtg	agaggcggag	900
gtgggagaaat	cgcttgaacc	cgggaggcag	aggttgcaat	gagctcagat	cccgccactg	960
cactccagggt	tgggcgacag	agcgataccc	tgtgtgaaac	tttttttttt	ttctccaacg	1020
ggctttccag	agaagtgtgt	gtatgtgctg	gtgtgtgctg	gagcgtgctt	gcttgggctt	1080
aaactttctg	tcgggccaca	ctttcccaag	tccttgcaat	ggctgtaggg	tgggctttat	1140
cctcgggacg	tcctcctccc	caagtccagc	ctgcagctgg	aaagtctcac	tgatctccat	1200
ctctcctccc	tgatctccgt	ctctcctccc	tgcccgctc	aggactggga	ggccgatctc	1260
tctctctcgc	cctcccctcc	accagccttt	tccagatgta	tgtctgccaa	agacccccca	1320
gtgcagagga	tgatgaatga	agatcctcga	gccagcccgg	tgggaaaagt	tcgtcgccta	1380
caaaagcgag	ggaaaggga	gggaagtgg	gggtagggga	aaagttagag	ctgagaggct	1440
ggggcgcgag	gagtctggac	accgggcggg	gacccaagct	ctctccgctc	agccaataac	1500
tgtgcctccc	ttagggaaggc	gtgaggaaaat	gctccaatca	atccctgcac	tcctcccttg	1560
gaatttgggc	tgtatttttt	tatttactgc	aaacccccca	atccaccag	gggtttcccc	1620
agtgtttgcc	tccagcggtc	ccggtgcca	tttactagtg	ctgctccctc	tcttccgcaa	1680
gactgcgctc	cagtcccagc	ctccttctcc	gcgggtgcct	cccaaaccgt	tctatcattc	1740
tcgggttcag	ggaggcggaa	tcgtgcctgc	tctccgggtc	ctttaagagg	cgctcggtcc	1800
acccctctca	gagtgcgggt	ctgacgcgag	atgacagcaa	cgagttcggg	atgtctatgc	1860
aaataagcgc	cctcttgtgg	gccaatgggg	agcggagggtg	ccggaaccac	ggaccaatgg	1920
ggcgggggag	ctggggctca	ccatataagg	agcggcctcg	ccataaaaagg	aaacattgta	1980
tctctttata	tgggggggaa	ggtcggggga	tccctccgcc	gccagcgcgt	gggtcccgcc	2040
ccctccaccc	gccgtctcgg	ccgcggccag	cagcccctgc	cccccggggg	acgctgacgg	2100
ccgcccggcg	cgccgcctta	gcagacggac	agggggcgct	gcgcgcggcc	tggggcaacc	2160
cgggcccacag	gggcaggaaa	gtgagggccc	aggtcggccc	gggcgtgcag	gggccccggg	2220
ttcgcagcgg	ggccgcgggc	agcgatagcg	gcactagcag	cagcgggaggt	gccgggttga	2280
gccgggaagc	cgatggcggc	ggctgcggcg	gctccgattc	ctcgtgact	gcccgtccgc	2340
cctcctgcat	cgagcgccat	gttaccgacc	caagctgggg	ccgcggcggc	tctgggcccgg	2400
ggctcggccc	tggggggcag	cctgaaccgg	accccgacgg	ggcggccggg	cggcggcggc	2460
gggacacgcg	gggctaaccg	gggcccgggtc	cccgggaatg	g		2501

<210> 61

<211> 2501

<212> DNA

82371.revisedsequence

<213> Homo Sapiens

<400> 61

ggaacccctct	gatagagagg	gctgactgta	tttattgaaa	acaaaacaaa	acaaaacaag	60
ggttgtattg	gtggacccat	gcagctcaaa	cccttggtgt	tcccagggtca	actgtatatc	120
cagagcttat	aggaaaatac	ctctcccagt	aaccctgtct	accatttctc	tcttaagcta	180
ttattatgat	tagccacggt	ttgctattta	aatttaaatt	taaataaaaa	tgtggccttt	240
cagttatgct	agccacattt	aaagtgtctc	atagccatat	gtggctaata	gttactatct	300
cggacagcac	atatttagaa	cattcccac	atcttcagaaa	ttttcattgg	gaacactctg	360
cggaaaaagg	gggcatcat	aatgtgagtc	catcttctgg	aaaaatcctg	ggaaggggac	420
aaaggagggtc	tgtttggcat	tgtgtaattg	taatttggtg	tttaattttc	aaaaatgttt	480
acccaattcc	tattcatcag	ccagggtgtg	tggctcttgc	ctgtaatccc	agcactctgg	540
gaggccgagg	tgggaggact	gctgcagccc	aggagtttga	gaccagcctg	ggtaataata	600
gggagatcct	gtttctacaa	aacaccaaaa	acaaaacaac	aactttgatg	ttgtggagtc	660
aggacagtcc	tgggttaaaa	cctttgctct	ccttagctgt	gtaaaccgtg	ggctcagct	720
ttcttatctg	ttaacggtag	gtacttcttc	ctagggctgt	tttgaggatt	aagtgaaggt	780
ccaagattgt	gtctggcaca	cagtagcttc	tcagcaaatg	ttttcctcct	atgtcaggga	840
atggctcctt	tatcccgttt	tgggcccag	ggtggccctg	aagggtgggt	gctcagggtg	900
taagttctgt	agatggcata	tccttgggaa	aagcaaggca	attaaaaaca	gtgagagggt	960
gctctgggta	agttttctcc	tataactttc	cccatgggtc	aattgggtag	aatctgccat	1020
tttcctaata	cttactgatg	gtagtggcat	tcggaagcac	aatagctgaa	gccggagctc	1080
tgagtggaga	gaaagggtctg	tttctcaggc	ccaaaaagag	gttacacacc	catggctgtc	1140
cagtttggtg	gtgcaggccc	tgaaatcaga	ccaaactgga	tttaaattccc	caaactata	1200
ctctaagcta	tgtgaccttg	ggctagatac	ttcacctctc	tggccttatg	aagtaggaat	1260
aataataata	ccgtctaggt	tgtaggaggt	attaaatgag	gtaaagcact	gaaaacgttt	1320
agggactgtg	ttaaatcatt	aaataaataa	aaacggggat	gaccttatcg	gcttgacaca	1380
ggggattaaa	tgagataata	tatgaagaca	agtacacggc	aaatgcttaa	ttaatgttgc	1440
ttatttttat	gtctgcaaac	tgacttaaa	gggaggcctt	taagaaagac	agtggggcaa	1500
tttgcgcggt	gatgcattgt	aggagaaaa	gtgcaggggg	cccgttggga	ccagagttca	1560
accaggtaag	cggcagaaaa	ccacaaatac	ctccaggcgt	tcctggggca	gcgccgcctc	1620
cccaaatca	cgcaaaaact	ggtttgctaa	gaattgtcag	ctcttctaaa	ggaggcgctt	1680
cacgcatctc	agtctgtgaa	atgggaccca	ggacccagg	agagggtcgt	tctcggcctg	1740
gggaccgagt	attttgtgag	ctccggtaac	gcaggaagac	agcgccactg	acactctaga	1800
gaccagcggt	caccgccttg	aggcgcttc	accacttggc	ggttccgggt	ccgcgcccc	1860
ccgcgccaca	agactcacgc	ccgaaccacg	tgatcagggc	cgtggctccg	ccccgctccc	1920
gcgccgcgcg	ccgcttccgg	taggggcgga	aagcggaaag	gtgggagggt	ctgcggggcg	1980
ggctcaggag	gtccgcggga	ggatggagca	gtgagcgggt	ctgggcggct	gctggcagcg	2040
ccatggagac	ggtagagctg	aggaacccgc	cgcgccggtg	aggggccact	ggctaagagg	2100
acgggcatgg	ggtaggggga	agaaaaggcg	ggaactggtt	gaggggatac	acctgtgtgg	2160
gagtccccgg	agctaagcga	cccagccgat	ggggcacctg	ctgagttagg	ggggggacgt	2220
ctgggtgggtg	agggtccggc	tgaggggagc	atctgtctaag	gaggttagac	ttgggaccgg	2280
ttagagggag	cactcgctgt	ggtagagactg	tactgtagaa	gctggggaga	agttaggag	2340
agtacctgct	gaggccgggc	cactcggggg	aacgcgtatcc	aagcaggggac	tcacggaggt	2400
gggggcgaat	gctgaagcag	ggtagagaatc	tgtgagggat	ctctttaagg	gggtggatcg	2460
agaactggcc	aagagggaagg	ccgggtggac	tttctaaggg	t		2501

<210> 62

<211> 2501

<212> DNA

<213> Homo Sapiens

<400> 62

gcatgggtggc	tcacgcctgt	aatcccagca	ttttgggagg	ccaaggcagg	cagatcacga	60
ggtcaggaga	tcgagaccat	cctggcgaac	acggtgaaac	cccgtctcta	ctaaaaatac	120
aaaaaattag	ccgggcatgg	tggcgggctg	ctatagtccc	agctactcgg	gaggctgagg	180
caggagaatg	gcgtgagccc	aggaggcaga	gcttgcggtg	agctgagatg	atcggggcac	240
tgtactccag	cctgggcaac	agagttaggc	tccgtctcaa	aaaaaaaaaa	aattactaca	300
tgataactag	taatgcggga	ggtagactca	agggggaaag	gaacacagca	gtgtaaagga	360
aggaggttgt	agatggatct	agaattttcc	cctcatttcc	atcagggtgaa	agcctgagaa	420
aactgcaatc	tttgtgcagg	ctgggtttgc	tttgtacaca	ctgggtcccct	agtgttcatc	480
tccaataatg	ctgacaactc	tgaaaacccat	ctgtagacat	tctgcaggct	ccatctcagg	540

82371. revisedsequence

aacaatggct	atTTTTtTcg	gtagttgaag	caaaattaag	tccaatgata	agcaaatata	600
accatttatca	aaatctttcca	tttatgtttg	ttaaagcaac	ctaagtatga	tctgagaagg	660
actctgtatt	ctatatTTTga	gtccttTgtg	atgaactgta	acctagctta	ataggcagac	720
aagattgaaa	acctaatttta	ggagtatgtg	cctttaacaa	tagctgagtc	ttggccaatc	780
ccagtggcca	tacttcaacc	attcatacac	tgctgagtg	tcaaactgtg	ttcaaagaag	840
gcaaaagcca	acctgtaacc	aatccagttg	tttctctgcc	ttacctccaa	tttctgtatg	900
tcacttccct	ttttttgtct	ataaatatgt	tctgaccatg	aggcatccct	ggagtctctg	960
aatccgctgt	gattctggaa	gctgccccat	tcgcaaatca	ttcattactc	aattaaactg	1020
ctttaaatttt	aattctgtcg	aagttttctt	ttaacaggtt	tagaaaaaat	aatggcaaaa	1080
atgaatgaaa	atccaataac	cctggaagca	gaaaaggctg	ggggctccaa	taagtgtaaa	1140
tagtccccatc	cctatatTTTT	ctccatggca	attacaatcc	agcacattat	atatatatTTT	1200
ttttgcttct	cgcatttttg	cttagggtaa	agcttttttaa	aacaggcact	gccaaccagt	1260
gttatcaaga	aggctctgga	gccgtttttg	gggaacattt	taaagaggaa	tgtccaaaag	1320
gaaaaggggg	atgggttggg	agaagggtat	caggcggtg	tctcaaaaacc	attcttaggg	1380
ctataggttt	aatTTtatTTg	gttgtggacg	tcagagccgt	catggtaaga	aggaagcaaa	1440
gccttttTgta	ataatttaaag	ccttcagaag	cagcgtgccc	cattgcccac	tagtgcgccg	1500
tgaagtctgg	tgttcaccta	cagggTccct	ctcagcactg	cccaggccctc	ccgagtgtctc	1560
cagcacagta	gcttgaggct	tgttggtttg	gtgaccaaga	tacactccag	ggaatatgcc	1620
atgcagtTga	gtctcttccc	cggcactgca	tagcaaaaagg	aaagggccgc	tgggtgtctg	1680
tgggtcctgg	gcagtcacag	aagccaccgc	gctggcgggg	aggaggggga	ccgatgcggt	1740
ccatgtccc	ggcagcccca	ctttctctgc	ctgcgaagg	cccttgtccg	gcgggaggag	1800
agaggcgcg	cccaccggg	ctcctctaca	cctgccgccg	cctgggccga	ttccgcgggc	1860
ctcgcccggc	gcttcagccg	attcccggcc	agctccgggc	tcatgggcgc	ggtcagcagg	1920
gcgggccagg	gcggcggggc	gcgacactgg	gaggaagtgc	gggccgcctg	cccgggcgcg	1980
ttaaaggagt	tgcccaaaa	gaggaagagc	cgcgggcccg	gcggctgagg	ccaccccggc	2040
ggcggctgga	gagcgaggag	gagcggtgg	ccccgcgctg	cgcccgccct	cgccctcacct	2100
ggcgcaggta	ggtgtggccg	cgtccctac	ccggccggga	ctttctggta	aggagaggag	2160
gttacgggga	acgacgcgct	gctttcatgc	cctttcttgt	tctaccttca	tcggccgagg	2220
taaaagtTgct	gaaaccatgt	gaataaaaata	caggtgggtt	ccgccagctt	cgctcctgaa	2280
cctacccgcg	ctcgggatcc	agaagctgcg	ccgggagaga	ggggctcagg	cctgggcgga	2340
ggggagcgag	gtcagaccgt	gcggaaaagt	acccgggcac	cccaggcggc	ccaggccccc	2400
agggagcgcg	gaaagtgcg	tcgcggcccg	gccctcggga	gacgcgggat	tgggatcagg	2460
cacagcgca	ggaagtcat	cttgagccta	gaacattttc	c		2501

<210> 63

<211> 2501

<212> DNA

<213> Homo Sapiens

<400> 63

cccaaaagat	acaaaggggt	ataagggtgaa	aaattattct	aacccatccc	tcagtacct	60
agttcccttc	ctctgaggtg	accaatttct	tggtatctt	tcctgagata	atctatacat	120
atagcaccat	atacaagcaa	atgaaatatg	ttttatttat	ttttttgaga	ctgggtctca	180
ctctatcacc	caggctggag	tgcagtgaca	ccatcttggc	tctccgaac	ctctgcctcc	240
tgggtctcagg	tgatcctccc	accttaaacct	ccagagtagc	tgggactaca	cgctcacacc	300
accacaccca	cctaattttt	gtttttttgt	agagacgggg	tttcaccatg	ttggccaggc	360
tggttctcaa	ctcctgagtt	caagtgatct	gccacctcg	gcctcccaaa	gtgtgtgagat	420
tacaggcggtg	agcctccacg	cccggcccca	aaatctgttt	taaaagcaga	catttcttgg	480
tgatttctaat	aaaggggggt	ctcagacata	tttggaaaaa	tatatcccta	cttttatgcc	540
agaccctgtg	ctgggtcccc	gggctgtgtg	acctgacact	gcacagtcct	gcttagaatg	600
cttaaagaga	gttaataagg	taccaccttc	tatgccatag	gcggggagca	aaggggctcc	660
agtgggccct	gcctaggagg	cctgaagcta	gagctgctga	gggcagggct	gtgtgtcaaa	720
gaaaatgtct	gagagctgca	ggcgtttcat	cttctgtcat	cagctgtggc	acctggcaga	780
cactggatag	gctttgtagac	aaagacctgg	taactcaagg	agctgtcttg	ccttctgtcc	840
cagtcccac	ccagaggcac	tgtacatctc	tggtttcttc	agggggccct	gtgtggaagt	900
atcttttTgtc	ttcctTgtgt	cagggatatc	atcacgtgcc	tggttgctag	gcgagcccgg	960
cgcccagTct	cctaggatgg	ggagagtaat	gttcccagac	agaacagggt	ggggctttca	1020
gactactccc	tttccTttac	agctggcttc	attccatcga	cctcatcaaa	gccttcctgg	1080
gagcacccta	gagaagagt	acgtccaggc	cgggccctgg	ctgcctgggt	cacggcgga	1140
tccccagcac	cacgcctcgc	acgtcgggct	caaagcatgt	ttagtgaagg	agtaggtacc	1200
tactgctaga	tggagccatc	tctctagact	tggggtttcc	ctataacgat	ggctatgttt	1260
ggcatggaag	cctctttaga	agtcaatagt	aggaaataag	ggctaacagc	acctaatgt	1320

82371.revisedsequence

ggagtaaggt	tcaaataccta	gctctgccac	ttaaccgttc	cgaacctgtt	ccctcactgc	1380
agaggcgaaa	aggctaacac	tatttcacct	cggagggtta	ccgtggagaa	tggaagctgg	1440
acaagctgta	tcagttcagt	agtaaaacac	acacacacaa	gcgccccacc	cccaccccac	1500
cccaccccag	gaatgaacac	acacaccgcg	gcgcgcacat	acacctcagg	aatgaacaca	1560
cgcgcgta	cacacacga	gccccccca	ggagtgaaca	cacacacaca	cgccccgttc	1620
tggtgttccc	aggaacacac	acagagacgc	acacactcgc	ccggttttgt	tttttccagg	1680
ctttttaact	ggggtctttc	actcggccta	gggcaccgct	gcctgaaaga	cctttctagg	1740
ccagtcgggg	tccggcacc	agttgacgag	acagcgcg	gctttcagag	ctggggagag	1800
gcgaaaaact	ttccggcccc	ccgatccccc	ggccagccgc	ccccggcagc	tccttgccgc	1860
ctcccgccct	gggccccgcc	agccgtttct	ggcctgccgt	caggcgatct	cggcggccag	1920
cccagccgcg	atgtgacgcc	gcgcgccccg	gggtcctcgg	cgcttgcgcc	ctctctata	1980
aagcagacgc	cgcgccgcgc	tgcgacgctg	tagtggtctc	gtcttcgggt	tttctcttcc	2040
ttcgctaacg	cctccccgct	ctcgtcagcc	tcccgcgggc	cgtctcctta	acaccgaaca	2100
ccgtgagtag	ccgcccactg	aactggaaag	ggtcgtggct	accggattgc	gtgccggctg	2160
gcctcaccgc	tgcggttttg	gcctgccccg	ggcgggcggt	gactgggcct	ggccttcttt	2220
cgggcccggg	ggatcgcggt	gtcgaccctg	ttcttcggga	gacactacca	ggttccggtc	2280
acctgccccg	cccccgactc	agcgaggcct	cctctggccg	ggcgtcctca	cggcgctcca	2340
taagtgaagc	gaacccgggg	ctgggccttc	tctgcaccgg	ccgagcgcta	gccggcgcg	2400
agctcggctg	caaggcccag	gctgcggccg	ggggcctctc	ttggtcttaa	gcctgctgtc	2460
ccggggacca	gggcgggggt	ggcggcgggg	ttgtgaatgg	g		2501

<210> 64

<211> 2501

<212> DNA

<213> Homo Sapiens

<400> 64

gatctgacag	gttaaagggtg	tacacttatt	ttctctgtaa	gaagcgctcat	ctggtaagat	60
gatcaagaat	gggtgcaaac	aggatgggga	gtttaaaatt	gtttccaaat	gtgggaatgt	120
aaatgaatat	aaacatgtaa	gattttaata	taccaaactg	atcagattct	gtgtaatttc	180
caagtttctt	ttttctttca	aaactcctct	gaaatctgag	tgtccacaaa	aacttacttt	240
atagaatttt	atgtgattta	tttactcaga	tattatactg	acctcacatc	cagtagtgaa	300
aacagatttt	attgtagaat	ctggaaaagat	agagggccat	atagggttgta	ttttcagttt	360
tgttttatact	aacacgtggt	tacaaccag	tttaatttac	accctgtatt	gtattattgt	420
tgtcatatct	ctgtatgcat	gtaagtataa	tatgtgttgg	caaaggaaaa	ttttgagtaa	480
gaagaagctc	tctgatctat	ttgattcaat	atgtatttga	gtgtctaaca	gacactgttt	540
tagacactgg	tgatacaaca	ctgaacggag	caccaaatac	tttacagcgt	ctcctggagc	600
tgttgtcaag	acatactttc	caaggggaa	atttcagaat	aggtgataac	tagtcaacga	660
aggaaaagta	ccttagtcat	ctaggagagt	tgtacttaga	gtgaactgaa	ataaactaag	720
ctcacgaaag	acagagattt	tttggttggc	ttttgtctgt	tgcattcact	actgtatctc	780
caggggccaa	aatagtgctc	ggctcataat	aagtattcag	caaataatag	ttgttgattt	840
gagtggttgt	tttgaatttc	tgtaatcaaa	cacatacctt	ggtaaaattat	ctttacatct	900
tgctagttga	aaattttatc	tcagttgctt	tgtttttaat	gttaccttgc	tttttgtttc	960
tacttgtgcc	atacatcagg	atgctggaaa	agcttattaa	tattgacagt	catatggtta	1020
tctgatattg	aaaagaatag	atttggaag	gaacctaaaga	ggatcatctt	tgttcagctt	1080
cctgcctagg	aaaactaagt	aagatgatta	ggtatgtata	tttaattagt	catttaaaaa	1140
aaaaccagga	caacataatt	gagttccctc	ttgagaaaa	ggagaaagg	acttaaccct	1200
agctataaag	ggactaacct	ggaaaattta	gaacttctgt	gtgggaaagt	ggaaaaaaa	1260
aaaaagcaca	actaagctgc	tctttgttga	tatcagaaat	gggcctgtca	ttcatttttg	1320
cattgaagca	tagcctccta	tctcggggca	ggactgggac	atttttttcc	tcccacaaga	1380
gctggacagt	tattacaggt	tcaaaaagcc	ccgaccagtt	tttcaagagt	ttctcctcct	1440
cttttccccc	tgaactcgt	ggtgcttttg	ctctgctttc	aagatgcatt	aagtctcctg	1500
ctttgtgact	gctttggagc	cagcagatac	tctgatattg	ataattcaaa	ttatgcaggt	1560
ttcacgagta	agtttaatct	tattttttta	gttagttaaa	aggcaagtga	tatttagaaa	1620
aatgttaact	tgtagttatt	tcaccctttt	tacttttaag	attttttatt	cttctcggcc	1680
ttttggctaa	gatcaagtg	gtactttaag	cattttttta	aataaaaaata	tccttttaat	1740
ttaataagaa	aacaagggtc	tacatagaaa	agccccctca	tctaagacct	gcacttttca	1800
attttctttg	agatgtcctt	gttgtaaaca	gtattcatat	gtcttttgaa	agccagttta	1860
ctaaacagtt	ttcttgagca	tctttttagt	tttactgaga	agtattttta	attgagcttt	1920
tctgagctcg	attgcttacg	tctgacacag	tctcaagttt	ccactgaatg	gtaacaaaga	1980
ctgtagaatg	ttgttggtag	tgcagtgaga	ggcatgcttc	cttagaccag	gtaagagaga	2040
tcagtttgtt	tctcactgct	gggtgagttt	ttacagctct	tattttatat	tctttaagca	2100

82371.revisedsequence						
gcagcaatat	taaattgata	aatagccagg	agcacgctga	tttcaagacg	tccttgcttg	2160
ttgcagacag	aaaaactaca	gggttatgta	tgggggttgg	ggtggggggg	gaggggaaga	2220
attagtttat	tactcagtta	cttatataaa	ttaattaaaa	tgtgaaaata	attctggagc	2280
tcagttttct	taattcagga	actaaagcag	cagttgagga	aatcagtaat	tttaaaggta	2340
cttcattggt	attacttggt	aaagcaattc	aaaggatagt	ttttactttc	atttttttcc	2400
ccagtagtta	ataaaaataag	ctttgccctt	aactaaacat	tttttccact	tacgaaaact	2460
tttaaattgc	caacagcaaa	atatacttcc	caaggatcct	t		2501

<210> 65
 <211> 2501
 <212> DNA
 <213> Homo Sapiens

<400> 65

cacaagtcaa	gaccgctccc	tgcttcttag	cccgtctggg	agccaggcca	gcaggcccca	60
cattcctgag	gaagggacag	ggttctggcc	tggaggggtc	agcagaagcc	accccagggg	120
agggcccgac	aggaaggaag	gtaggccctgc	cggaggggca	tacaggagct	tcctctcccc	180
ccacagtgtc	caggccaac	tgctccagcc	ctcaggctgg	gtcaacagga	tgggacagcc	240
caggcggaag	gaaacctgtg	gggagggaca	ccccgcagac	agaagcaggg	acatgggggtg	300
gggagaggca	ggaagagctg	ccgggctgct	gagctggcgc	ctctccagca	gactcaggag	360
gggcggtgac	aggaggccat	tccctcctca	tccccgcagc	cctgggcctc	tctggtcctg	420
gccaacagta	ttactatcat	tattattgct	gttgttcgct	agcctggggc	ttagatacat	480
tagaaaaaaa	ccatcggaag	atacgcatag	cattggcagt	ttctaaaaga	attaattccc	540
ttcctgtgtt	cattctgtga	ttactgggat	agaaatgcta	tttgattac	cagcctttca	600
ttcagttaca	gagacgtgag	tgctcgaagg	agagacagtg	atttttgctt	taaattcagc	660
ctgtccaaat	cggataagat	ctccgatttg	ctttaagccc	cggtatcact	gccttcctct	720
ccaacaacag	ctgctgtgat	cacgcacaaa	cggccaaacg	ggggcaaadc	cggtccaaag	780
cagggccatg	ggctttcctg	atcagaaggc	ctagccccag	cccccaggcg	cagcacacgg	840
gcggcttctt	ttcagaaacc	cagcctgcct	cccaccagct	ggagtgggtg	ggtggggcgg	900
tagtgggtgcc	agtttcaggg	aacggccggc	aaaccacact	ccaggcgtgc	tccagcgga	960
gcctggagac	cctaggagag	ccctcccccac	aagcggcttc	caggcaggac	gcttccagag	1020
gtcttggtcc	aggggtgggg	gtgaggtggg	gtctaccttt	gaaacagcta	caatttaaac	1080
ttcagctaca	ccgagctcaa	actcgattcc	gcagccgagt	gtcggcgcca	gagaaggata	1140
aaaactcggg	tctacggctc	cccaccacgc	ccctggtccg	gtcctctggg	cttccaggag	1200
tcctcacgcc	atcctctggg	ttgcccagga	ggaaggatgg	gcggggcggg	caggcgtgc	1260
gggcgctgca	gatggggagg	gcgagccgc	ggcacggcgt	gagcggggga	gaggcgcgcg	1320
agcagggtgc	ggctccgtga	cagggtcccc	catcccgcgc	cccagtgctc	cccagggtct	1380
agtgaggcaa	aaccagcaa	atgcttcaga	aatgcagctc	agtcgggtcac	cgggttctgc	1440
ttcctcatca	gacgcgcaag	aggatggcgc	ttccaatgca	aatctcttgg	ctccggcccc	1500
ttggctggca	gccgccgcgt	ccccgcctg	cctggcgctc	cgccccactc	gtggcgggct	1560
gagacgaggc	ccggcgcgga	ggggacgggg	cggagcgggc	atccctcccc	acccccacg	1620
tggggctggc	cctccgcagt	gcctgggcgc	gctgcagtcg	ccgcgcctcc	ccggccgcgg	1680
caccgcctct	ctaggcaggg	gcgggggacg	aggggcaagg	agtgggcgag	gggtgggcga	1740
ggggcggggg	gcgtcactca	atcagggtgg	ctctggagtt	ccccggggca	gggcagaggg	1800
aacacgctgc	cggggattgt	gtacacgctc	cactgacacc	agcttcacgc	tgccgggag	1860
tcgccgatca	cgctggcccc	cgcgagccca	ttggccggcg	cctcacacac	ctttgccgtt	1920
gattggcccg	cctcaggctc	cgccccacc	cccggccgcg	gcgcggggca	ggctgagcgg	1980
ctacctgaat	ggggaggggg	cagacggcgc	tgagcgcgcg	ggcggcgagg	gcggcgctca	2040
gtgtctccgt	gcgcccgtct	gtggccaagc	agccagcagc	ctagcagcca	gtcagcttgc	2100
cgccggcggc	caagcagcca	accatgctca	acttcgggtg	ctctctccag	cagactgcgg	2160
taagtcatatt	ggggatgccc	ctgtgcttcc	tgcctggttc	ttgtctgggg	ggccaaaggg	2220
ggcgcgaaac	ccgagccccg	gacatcagcc	atgcctgaga	attggggctg	cagcggagtc	2280
gtgggggaagg	aaagggtctc	ctgcctgcag	actatgggca	ttagtgaagg	cggtgtgtgt	2340
ggggaggggg	tcgaaccagg	gggctgggat	cttcagacag	ggacaggggt	cttgctctag	2400
atgtactgag	gggaagggac	aactccgcac	ggagacccga	gagggctggt	gaggaggagg	2460
atgacgagcg	ggggaggagt	ggggaggggg	ccgttgccct	g		2501

<210> 66
 <211> 2501
 <212> DNA
 <213> Homo Sapiens

82371.revisedsequence

<400> 66

```

ggggctgtag aaatggcggc cccatctccc aacaacttgg gcattgtgaa tatcacctcc 60
ttaaagggga tctccttttg tcatcccgct tagagcagcc accataactt ctgagcggtt 120
attgctagct gatatatatc agaaaaatac aaattccaca aaagcaggga ctggctctgct 180
tctctccctg cagggcccag gttctggcac atagtgtgtg cagaaagtgt gcagcctcag 240
gtcctatcca agccccagg gcatcacact cgggacttgt tctgcatatt ttactttttg 300
cctcccactg gtactagttc ttccgtggaa cagcctgagt ccttcagat acttaatgtt 360
ttttctcaag tgctgccatg aagccagatc tccaccgtct tggggcattc ctttttaggg 420
atgggaagta tatgtcgtc cttttatgtg atttacattc tatcttgat aatttggcca 480
tcaccgtagt tcattcagat ctgtttggat cctgccatc tcagcttcag tccatttcat 540
tcttttaaat ctgatcgaca gttacctcca acagcttcat cacaaatcac tcacaaaaat 600
ggccttaatc ctgaagttta tttacggaga gcacacttgc taggtgtgtg gcagatatac 660
aggaagcaca agatgaggca gcagatctag aggcaaatga cttccttctc cctgcctagt 720
ggtgactgcc agcatcacgc cctcccggga gaggtagaaa acccctccac gcaagcactg 780
gaaccttcac agtcaagagt ggcaacagct ccggttactg gacttgggcc tgttgaaattc 840
taatactctg tgactccaca tctgggctga attttctgt agtatgatgg aatttacatg 900
cttctccctt agccccctact tgtctgtata gttggaatat ttggttgcc cctctggagg 960
gatctagtag gtttagagtc tagacgttg aactgtcaaa gttcagagga aagagctcca 1020
gttgcaaaagc aagagaaatg ggctggaatt ctagcttcac ccttaaatga atgcttctga 1080
tttttttttt tttttttttt ttgagacgta gtctcactct atcgcccagg ctggattgca 1140
gtggccacga tctcagctca ctgcaacctc cgctcccag actcaagcga ttctctgtgcc 1200
tgagcctcct gagtagctgg gattacaggg gtgcgtacc acgcccggct aatttttgta 1260
tttttagtag agacagtttt tggccatggt ggtcaggctg gtcttgaact catgacctca 1320
agtgatctac tctcctcggc ctccgaaagt gctgggatta caggcccag ccaccgcgcc 1380
cagccgcttc tgatcattaa aaaaaaat ttttttggc ggggggaacg aagtgtccct 1440
ctgttgctca ggctggagtg cagtgcagtg atctcggctc actgcaatct ctgcctccca 1500
ggttcaagcg attttcctgc ctcagcctcc tgagtagctg ggaatacggg tgcccccac 1560
cacaccagc taatttttgc atttttagta gcgatggggg gccttccctg gcctcccaa 1620
tggtctcgaa cttctggcct caggtgatct gccttccctt gctcccaaa gtgctgggat 1680
tcagggcgtg agccaccgtg cctggccaaa aaatttatgt tttaaaaaga ctagtcaagt 1740
gcagtagtga gaagggggga aagagtagag caaggagtta tatctgttgc ttctgaccat 1800
tttgaacaag ttacctaat ctctgaggac aagctcggag aatgggagag acagttatct 1860
atttgcaggg ttgttgggag gaataagtga catcatgagt gtgtgccagg tgtctgatta 1920
cagaagggtg tcaattaatc tgcaatcatt aattaaccct tcagtcgctg gtattatttg 1980
caatccatcc tccgagtggt gccaaagtat ggggtgcgtt tgccagcgtc ctagcagtgg 2040
taaggcttct ggcctgcagc ggcgaaacct tcccttgag tatttctcct cttgctgaga 2100
tgaaatgcga ccgggtctct ttaagggcca ggccgggga tccaggcggc gcccaacggc 2160
tgactagca gtcgtccgcg ccgactcgca caagaaggaa ccccgggcct ctggatccgc 2220
tcgcccggct atgctgctgt ggccgctgcg gggctgggcc gcccgggcgc tgcgctgctt 2280
tgggcccggg agtcgcggga gcccgccctc agggcccggg ccgcggaggg tgcagcggc 2340
ggcctggcct cccggtaacg cgcgtcttgg tcccgcctcc caggagcccc tatgcgcca 2400
cctactcccc gcccctcgcc ttccggaacc cgccgagcc cgaagcgctt cttccgaggc 2460
gcgggatttc ctccccggct gcggctggga cggggcgcc c

```

<210> 67

<211> 2501

<212> DNA

<213> Homo Sapiens

<400> 67

```

atggtctcga tttcctgacc tcatgatccg cccacctcgg cctcccaaag tgctgggatt 60
acaggcgtag gccactgtgc ccggcctcta tcagcatttt cttttctttt ctttttcttt 120
tttttttttt gagacagagt ttagctcttg ttgcccaggc tgaagggcaa tgggtgtgatc 180
tcggctcact gcaacttctg cctcccaagt tcaagcgatt ctctgcctc agcctcctga 240
atagctggga ttacaggtgc ccaccacat gccagctaa tttttgcatt tttagtagag 300
acagggtttc accatgttgg ccagtctggt cttgaactcc tgacctcagg tgatccgccc 360
gcctccacct cccaaagtgc tgggattaca ggtgtgaaag agaccattcc cgatctcttt 420
cagcattttc atactgaatg tccacagctg cctgtgag aggcctttta cccatatttt 480
ctgactcaga gagaagcagc cacatgtccc ttggccatgg cagttaagac caactccatg 540
gagctgggtg tcttagctca catctgtaat cccagcatt tggaaagcca aggcaggatg 600
attgcttagg gccagaagtt caagaccagc ctgggcaaca tagccagacc ccatctctac 660

```


82371.revisedsequence

aaaaatttaa	aaattagcca	caaaatttaa	aaattaacaa	caaaagggcc	gggtgcggtg	720
gctcacgcct	gtaatcccag	cgcttttggg	gggtggatca	cgaggtcagg	agttcgagac	780
cagcctggcc	aagatgggtga	aatcccatct	ctactaaaaa	tacaaaaaatt	agccgggcgt	840
gggtggcgggc	gcctgttgtc	ccagctaccc	aggaggctga	ggcaggagaa	tcgcttgaat	900
ccgggagctt	gaggttgcag	tgagccgaga	tcgcagcatt	gcactccagc	ctgggcgaca	960
agagcgaaac	tccatcttaa	aaaaaaaaaa	aaaaaaaaagt	ggaagatgag	gaagttgatc	1020
agacatcaag	gatgagcgga	tgacttaata	ggcttctttg	ctaagacttg	gctgggcagg	1080
tgaaagacaa	agtcgaggag	tggttatggt	gtggcacaga	agaagggtca	gaggacggtc	1140
tttgttacct	cttcatgcct	gagtttcttc	ctctgtgaaa	tggggataat	aagagccgcc	1200
atacagggaa	ttgtctgtag	gatcaaatga	gataatgtat	gtgaaacgct	ctggctgtag	1260
gcttctcagc	aaatgggcac	gacttgcgga	gtggggattt	gaattcacgt	ctggcgggat	1320
gtccaagctg	ctaccctgac	cgctagggag	cttcagagga	cagggctgca	ggtgatcagg	1380
aagaggactg	gggcagggtg	gcgaggaatg	cctcccagga	gtgaaggagg	gggaattcta	1440
gtcagcagga	tggagtcggc	caggtagaaa	cgagggaaa	gagacaggac	cggatggaac	1500
ggggaagcca	aagggcaggg	cgctggaggg	ttgaatgggtg	gccggtgcag	ctttgaacac	1560
cgaggtgagg	acatgcagct	gtgtcctagg	gtcaggaccg	tacacgcctg	acccaattcc	1620
acagcacgga	ggggaactcc	aggatccggc	cgcgttgccc	acacacttcg	ctctccctcc	1680
cgcttctcgc	aagccccctc	cccgtctccg	tccaccgagt	gccagccaat	agcagaagcg	1740
acagcgcac	tgggtgccga	ctcagccaat	cgcggtcgag	tgacgaatga	gccccaggac	1800
caatgagagt	gccgccacca	tggcaaaaaa	aaaaaaaatcc	aatggtgacg	agcagggaga	1860
acagagcagc	tgccaatggg	cggtgtgcgtt	tcaggcggcc	aatgggagga	ggcgctctcg	1920
cgggggacaa	gcagtagcta	cccgcgggag	cggggagggg	tccgggttcg	agcttgtgtt	1980
cccccggaag	ggtgagtctg	gacgcgggcg	cggaaggagc	gcggccggag	gtcctcagga	2040
agaagccgcg	gggactggct	gcgcttgaca	ggctgcactt	ggatgggagc	acctggtgcc	2100
tcgggactgc	tccgatgccc	ggtgggtgca	catcccagtt	cccgccgttg	ccggccgggt	2160
ttagaggttt	tggggggagg	acatgggggc	gtgcagcctt	cccagttgca	aacttcactc	2220
cgaccctgtc	ttcaaagctg	ggtctgggtc	cagtggggac	gagaaaggag	gaaggaggaa	2280
gtaggctccg	cgaaaagccc	atccccggga	tctcatctat	aacatgaata	ggtattaatg	2340
gcaaaggcta	attaagcgct	tactgtatac	caggcacttt	ctctgcctcc	tcgcgttaaa	2400
tcctcccagc	agccttttga	ggtagacact	gttacatgcc	cattttccag	atgaggaaac	2460
cagcaacatg	ggtggaagtg	acagcccctc	cacttccata	c		2501

<210> 68

<211> 2455

<212> DNA

<213> Homo Sapiens

<400> 68

ggagtgcag	aacacagaac	taaaacagag	cttgaaactt	aaagaaaggg	agagacttgg	60
gggaggagt	gggtggagt	acgtgatgtg	ctgctgga	ccagcagttg	gtggtttcct	120
cttgtgtctt	ctcttctgtg	ggttttcttc	tgcttgtggg	agggcctttt	tctctcctcc	180
cgacagaaag	gctatctttg	gtgttcgttc	cccttgactg	taacatcctg	taagggtatg	240
attccatgcc	tctgtgtggg	tgtgaattcc	ctcatggtga	ccctcaaaat	ctgcacacag	300
gaccccttcc	cattgagggg	aggggatcaa	aacaactcta	cttctcaggg	tcctctcctg	360
ttccaactgg	tctgtgtcca	agagaagcct	taggtaaatg	gggccagctt	gaagatcaaa	420
caggtttggc	agcctctccc	ggcctctctt	ttctctccta	cagctttata	gctacagctg	480
ccttgataat	aatattgact	ttggctggct	ggcatgacta	cccacagggt	atcggtcctt	540
aattttaccag	gtgacaggca	acgctgcccc	ctcctgggaa	catccagcag	agccagggct	600
gtacccccaa	atcctgcaac	agaggtttcc	ctccatctca	cctccctgtc	cctgcatttc	660
tcctatctca	gtagctcctc	tttccctctc	tgggcttctc	tttccactcc	ctccccctcc	720
tgggcttggg	aaactagtcc	ctaactctct	cacaccccag	attggaagggt	gggtccctcc	780
ctgacactcc	ccagagctgt	caccaacctc	ctccaagttt	ctatagctcc	attgctcaac	840
agatttgcca	ggggtaacca	ttaacccagc	ctttaactct	gttccccac	ctttcttgct	900
ggaggggatt	ttccaattac	tgggttagcac	agctagggtca	tctcaccccc	accatctttc	960
ctaacttctt	gggttggggg	gctggggagg	aatctcccca	tctcagggtg	ctaggaacaa	1020
agctggggag	gatgggtgat	ttaaagggat	tatatatata	tatatatata	ttttttttct	1080
ttctccctca	taaccccacc	cccgaacac	acacacacac	acacacacac	acacacacac	1140
acacacacac	agacgcacaa	ataagcttta	tggagcagtg	acttcattat	gttcaccgct	1200
ttgagtccaa	ccccctggccc	aaaataggca	ctaaatagtt	gccgaatgca	tgaatgatag	1260
atacctctct	gtcttcaggg	gtgtgtagaa	gtgcgaaggg	gtatgggcat	gtcccagtag	1320
gggtgtgagt	gttctgatca	gaactacttc	tctctgccag	aatttgatgt	aattcgaatg	1380
cttccacctc	tgcttgaagg	gtttaaataa	taaattaggc	cctgtcgtgc	cattatgggg	1440

82371.revisedsequence

gtggtcatac	cctgtaccca	ggaacacaggc	acggttagggc	tgagacagaa	gtcctgcttg	1500
tttccgctta	tttatttgaa	acaccgctca	tttaggtctt	actttgtttg	ccaggcactg	1560
ttctaagctc	tgtataaata	ttaactcaga	gggtacaaat	attaacttaa	gagttgttgc	1620
aggaaaaaaa	ataagcgcct	ctggctcttt	aagtttgccc	tccccctcaa	aacccccgca	1680
acggtcccaa	accccttcca	gggactggga	ctacggaccc	tggtccgacc	ttctcgcggg	1740
cttcccactg	cgccaatcaa	atcccagaaa	cagtgaagtgc	tagaggccccg	gctgctaagc	1800
aacggcagag	ggcgggaagt	ttgaacgttc	tggaccgcc	ccgaaggcaa	ataggccaat	1860
cagcgtccag	actcttcagc	tacggcagtc	cgcttctcct	cctcgccctg	tcggatctct	1920
aggctggatc	cgggcctctc	caatcaacag	cggctaggag	ggcggggcgc	gtgcgcgcgc	1980
acctcgtc	cgcgccggcg	cgctcctttt	gcaggctcgt	ggcgggtcgg	cagcggggcg	2040
ttctcccacc	tgtagcgact	caggttactg	aaaaggcggg	aaaacgctgc	gatggcggca	2100
gctgggggag	gaggaagata	agcgcgtgag	gctggggctc	tggcgcgtgg	ttggcagagg	2160
cagagacata	agacgtgcac	gactcgcccc	acaggggcct	cagacccctt	ccttccaaag	2220
ggtaacctcc	gcgtgacagg	aatgagggtg	gggcgcgtgg	agtttccac	aatctgtact	2280
ttagttaaat	acccgagaat	tcacctctg	tgccacagc	tctccacgcc	cctcagccct	2340
gccccgcagc	cctgtagcag	aagtacttag	tgctttgcat	tctgcgcgcc	accctacccc	2400
ggcctcctct	gtgaatcgtt	gcttccgaac	cgccctcact	ttttgcatcc	gcaga	2455

<210> 69

<211> 2625

<212> DNA

<213> Homo Sapiens

<400> 69

ttttaaacga	gaagtgatgt	ttccggagca	ttaaaaactga	agtgatttca	aaaccatggt	60
gcactcacac	gaacagggtg	gcacttaatg	gactaaacta	gttcagctga	catgtcttct	120
tcattaggaa	cagtgtggag	actgaaaaac	taatttagcc	tagagcagct	atttaattgt	180
aaagtctcct	ttctcaata	ttgatttact	atgtgaggaa	atatttactt	tgtatagaag	240
tgtgtggaat	tggacgaggg	ggttgacctg	cacatgtggt	ttggtataca	catatcctca	300
ttacagaggg	tgtaatgaag	atataggtgg	ttcagcacca	taggaaaggg	aaaaaagaaa	360
aaaaaaagac	ggtagagggtg	gcctcccaag	catccactcc	cactcctctt	gttaatgatt	420
cacaatttgt	tgttattgtt	gtcatttact	gttctccaca	cctttccaca	aggcctgtgt	480
gctttgaaaa	aatatgtctc	tactccggat	agaagtgggg	cacacagggc	caggcgcggg	540
ggctcacgcc	tgtaatccca	gcactttggg	aggccgaggg	aggcagatca	caaggctcagg	600
agttcagagt	cagcctggcc	aatatggtga	aaccccatct	ctactaaaaa	tacaaaaatt	660
agcctggcgt	ggtaggcacgt	gcctgtagtg	ccagataact	gggaggctga	ggcagaagaa	720
tcacttgaac	ccgggaggca	gagggtgcag	tgagccgaga	tggtaccact	gcactccagc	780
ctgggcgaga	gtgcaatgag	actccgtctc	caaaaaaaa	aaaaaaaaga	aaaaaagaaa	840
agtaagtggg	gcacacgatt	caggccctaag	ctaaccagac	caacctcatt	cctgatgggt	900
gttaatgttt	cagatacggg	cccgcagccc	tacgtagaga	agaggccaag	gtagaaaaca	960
tgaatctgag	gtaaaaagaa	atgagggtact	tgtttgccct	atcaagcctc	tcaattaaac	1020
taaccttgaa	gcctgtctta	cctttggact	tctagtgtatg	tcacccggta	aagccatttt	1080
gtttcaggac	gtaagagttg	ggttttctgt	gacttggaa	caaaaccatt	ccaatttaca	1140
aaatgagcaa	ctttaatatt	acccatgaga	aatacttcat	tggtatatgc	tctttcctag	1200
cgtttttgaa	aactaaacta	ggtgggtgaa	aagtatatct	ttgcatgaaa	ccttttcatt	1260
ccagaaaaca	ttttgtcatc	ttgataataa	tggccaatgc	tactatatcc	aaatttttgt	1320
cttttttttt	ttttgagaca	gagtcctcgt	ctgcgcgtca	ggtgtgatgg	cgcatctcgc	1380
gctcactgca	acctctgcct	ccctgggttc	agcgattctc	ctgcctcagc	ctccctgagt	1440
agctgggatt	acaggcatgc	gccaccacac	ctggctaatt	tttgatattt	tactgtagac	1500
gggggtttcac	catitttgcc	aggctgggtc	cgaactcccg	acttccagtg	atcctcctgc	1560
ctacctcaaa	aagcaacttg	ataaatccac	aggctcggta	tatttttaaaa	attcttttaa	1620
atacagtata	cttttctctt	tttttccaga	attaaccatg	aatcgcacac	acagccagag	1680
gcttttaaac	cgagaacgga	caaaggggcc	tgcttgtgca	atacaattat	ttttaatggt	1740
taaacaaatt	aatacataag	accagcttta	cctaataata	taataacgaa	ccaaagttta	1800
caacagacaa	gaaaagcacc	agctgtcccc	gccaccccg	agcgatctcc	aaggggacgc	1860
gggagagcgc	cgcggggggac	gcggaagtct	gacgtcacag	gaactggggg	cggggcgggg	1920
aggcccgac	accctattgc	gcatgctccc	gcctcccccg	ccgcggcctg	gcgcagtgcg	1980
cacgcgcgcg	ggtgggcggg	tttgactggc	cgtagagtct	gcgcagttgg	tgaatggcgt	2040
tgggtggcgg	aaagttagtg	ctctcctcgc	ccgagccttc	ggggcgatgt	gtagtgcctt	2100
ccatagggct	gagtcctggg	ccgaggtgag	agccgcccgg	ttgggagtga	gggagatggg	2160
aacaaggccg	ccggtgggcg	aggggagccg	agggaaaccg	ggggattggg	aggcttgggg	2220
cggcgcggcc	tggccgggct	gggaccggcc	tctcggccta	gacggccgcg	atgctggcac	2280

82371.revisedsequence						
cctctgccac	ctctcacctg	ggccccaggg	gtccgcccct	gggcagcctg	gagtcctccg	2340
agggtgggagg	accggggcgga	ggtggaggaa	gtctttcttt	ggaagacttg	ctgcctgccc	2400
agatcgatat	aacatacgag	gtctctcctc	ccaagagtta	tggctctaaaa	acccctcaca	2460
aattaactac	cgttggaaat	gtcaagctat	gcaagaaaag	ctagaaaaagg	ggaggggtcg	2520
cccgttggag	catttggagc	ttttctggaa	caggtgggtg	ttgcggagg	tgccctcacct	2580
ccctgtagcc	cacgtgtctc	tgcttagggc	agctggccct	cgcca		2625

<210> 70
 <211> 2540
 <212> DNA
 <213> Homo Sapiens

<400> 70

tagtcccagc	tactcgggag	gctgaggcag	gagaattgct	tgaacccagg	aagcagaggt	60
tgacgtgagc	tgagattatg	ccactgcact	ccagcctggg	caacagaggg	agactccatc	120
tcaaaaaaaaa	aaaaaatcat	taaaatacag	taattcaggt	ttattaagtc	attaccattg	180
ggttacctca	caaataaact	aagtttagat	gcgaactcaa	agatactgag	acactaatcc	240
atttcttaag	ctgctaagtt	agccttcttg	aaacctcact	tcgtagctct	gcaaacaatg	300
tacttttgac	atcccaagct	cacaggaata	aaaaaccacc	tgccagttgt	ttccgttttc	360
cacctatgtc	taatttatgt	acttatattt	ataagaaaca	aatcactaag	tcttatttca	420
tccttagtta	tgttgtgttt	ctatcgataa	cagcatgaag	atttcgggga	cctggacatt	480
aaaataagtt	tgagtactgg	ctttacaatc	tactaggtgt	gatccgaggc	aagtcagtct	540
cttcatgttt	cacttctttc	acttgtaaac	atctattcag	aagttgctgt	gaacttgata	600
tttccatgct	tataaactga	ttttttgaaa	agagcctggg	acataggacg	tgataataaa	660
tgaaagcatt	tttttcacca	ggaaaaacaa	gcatgacaag	atagttttata	tactgttgat	720
cttaagcaca	gtatatgcat	cttatttttta	gctagtctga	cagtgagata	ataaaaaagag	780
ttatctttga	cttgactac	gagtagaaga	attcaacttc	agtttctaga	aagatgtata	840
agaattaaga	gtggcagctc	tcctagtctc	aactgccatc	ttcccaccag	gtggtaaaatt	900
cgtccagaga	agaaaatgaa	ttattgctat	atgggattct	gcagcaactt	ctgtgaacat	960
aggctcataa	tttttcacca	tggagactca	agcttttttg	agtcatagtt	gtttttgggt	1020
ctattttgcag	gcatgcatcc	ttgtccaga	aataatacata	acattttggca	catggacctg	1080
gaggtaaaag	aggaggaagg	cctgaggcta	gacaccactc	caataagtac	attaagctcc	1140
tagaagggca	atccaccctt	gcagagaact	cttaactatt	aaaacctata	gcttgtaaag	1200
cagcattttc	aaagttaaga	gaagaagggtg	gaagggtcct	gagaggctac	tgactaaaca	1260
gatgaaaaatg	aaggtatgga	gtttggtgcc	aaaagaaact	cccccaaaaa	atcaaaacaat	1320
aacaccagag	taaaagccct	agggcgagat	aaggagttyc	aacaaaacaa	gcggaaactc	1380
gagaagcgct	aatgcttcaa	agggctcaatg	accacacata	atctacgtag	ccaacgtggt	1440
aaaacacacc	aacgcatttt	tttttcctaa	acaaagtagg	aaagcggact	ttgcatgagg	1500
ggcgggctgc	cgacccagca	gtcttcctcg	gacagtccgt	cctgattctc	tctggttggc	1560
cgtggaggga	ccacatggct	ccaaggcctc	tcagctccgg	gcccacacac	cccgggctgc	1620
cgcacaaact	ccagccctag	tctagatcca	caacccttc	tcgaagatca	accgcgacct	1680
gggagccccca	cttcttacca	tagcgaggcc	ggcgatgccg	cagccacatc	acccttccgg	1740
ggctcaggcg	gaagaggctg	catgtcccgt	ctgcccttct	cgccctctcc	agccgtccgg	1800
ttgggcttgt	cacggcaccg	cctaccaaga	cgggcgggta	agacactagg	ataggctcct	1860
ctccaccgga	aaaggcggga	tttagatcac	gtcccgcagg	ccggcggaag	tagctgatac	1920
tctcattggt	tgcaaaacct	tgatctgtga	aagcgggcgt	tttggaagat	accggaagta	1980
gagtcacgga	gaggtaggat	ccggaagtgg	ggctgcctct	ttaaataaca	aaaatctgag	2040
gttctgttct	ttttatcttt	ttgctttctt	tttaaaaaag	ttccctgcta	cttaccctta	2100
gaactccaca	atgcgagaat	ccccctcaat	ttgtgagctc	ccgcgacttc	ctcttggtgg	2160
cttttgggga	tgctaggggt	ctcggcatta	tcctcagggt	gcgacctgtt	cacccctttt	2220
tcagtttctc	cgtttgcac	tgagggattc	ttgggaatgc	gaagcacttt	tgaaatgctc	2280
tgtgttggtt	gtgggattgg	gaggacgggt	gaatccagag	ggtagtggtg	agtaggctgt	2340
ttgagcattt	ccccagcact	ggcctgtcct	ttcaatcccc	agatattggt	aaactgtggg	2400
ttccaaccag	gcactcgagg	tgaaacgtac	taggcaattt	gaggtcagga	aagaactttc	2460
tgtggttaacc	aatgggaagg	aactgccgtt	tgcggactgc	agcgattgat	taggtacttt	2520
aaagagatca	actggcaaga					2540

<210> 71
 <211> 2610
 <212> DNA
 <213> Homo Sapiens

82371.revisedsequence

<400> 71

ctacaggctc	gtgtcaccac	actgggcaat	acaaaaaata	caaaaaaaaa	attttgtatt	60
ttttgtagag	acgaggctct	gccatattgc	ccaggctgga	attcttacct	ttgttactgt	120
atttaacgta	tctttttcct	ccggccatct	tcatggtttt	ctctctgatt	tccacagttt	180
gaatacactg	catgtgtcag	gcaggggctc	atattttatca	agttttgtgt	gtgctctgag	240
ctcaggctct	tcattatttt	gggaaaatta	ttggtaattt	tctcttcaaa	cattttttat	300
gatttgttct	ttcttcttct	tttgggagtc	ctattacatg	catatgatat	catttgatat	360
tttcccacag	ttcttggatg	ctttttttaa	aaaaaaaactt	tttttcttct	ttattttcca	420
acgtgggtaa	ttcctatttt	tctcagctgt	gttgatccta	ctgctgcccc	atcagaaaaa	480
ttacctgtta	tcagcgttct	tcctttctta	taatttgatg	agtttctctc	tcatgcatat	540
tgttcacctt	tcgtacaaga	gacctccaca	tattaatcac	agtttaattta	aatttccagc	600
ctgtttcaat	ttctcgatca	cctctgagtc	tagtctgtt	aattgcttag	tgttattttt	660
tgtttttgaa	acagggtctt	gctctgttgc	ccaggctgga	gtgcagcggc	gcgatctcag	720
gctgtttccct	gagttcacac	catccccctc	aaccagcaga	ttgcaaagtg	tccgagtcgg	780
gccgtgcagg	agtctttgtg	ggggtttcat	ggactccgaa	ttctcatttc	tgctccatcc	840
ccatctcatg	aatccaaggc	cccactctgt	gcctcggctc	ttcgtttgtg	gtgctgaacg	900
tcattctacgt	catctacgcc	atctacgtaa	tcaacacaat	aaagacgcct	gccgggaacg	960
cggcccttcg	gctgaatccc	ttcggtggtt	ccaaggccac	tgccagagga	tgccgacggg	1020
tctccagggc	ctctacttac	ccaggacttt	gagcacatt	agcttcgcct	aggcactcgc	1080
ttttacgaat	tcttatgttt	ggttttgttt	tgagacagag	tctcgtctctg	ccgcccaggc	1140
tggttaaaaag	ataggggtctc	agccgggtgc	ggtgggtcac	gcctgtaatc	ccagcacttt	1200
gggaggccga	ggcgggaggc	tcacctgagg	tccggagtcc	gagactagcc	tgggccaaca	1260
tggcgaaacg	ctgtctctac	taaaaataac	aaaaatcatc	caggcgtggt	ggcgcgcacc	1320
tgcaatccca	gctactcggg	aggctgaggc	aggagaatca	cctgaaccca	ggaggcagac	1380
gttgacgtga	gccgagatcg	cgccactgca	ctccagcctg	ggcgacagag	ggagactccg	1440
tctcaaaaaa	aggaaaaaaa	aaaaaaagaa	aagaaacaaa	agtgatgggg	tctcgtctctg	1500
ttgcccaggc	tagtctggaa	ttcctgggct	caagcgacct	tccagcctcg	gcctcccaaa	1560
gcgctgggaa	tacaggcgcg	gctaccgcgc	ggtctccggc	tgccgaaaca	ccgccctgcg	1620
cgcggaccgt	tcggccgccc	ggaggaacag	cggctgcccc	gagctcagag	gcgcgcgcgg	1680
ctttgcgctc	cccgcggcgc	tctgagcctg	cctcggcttg	gttgccagg	tggtctcttc	1740
aggaccaacc	ccagtcattc	ccggcaggaa	ccacgcttga	ggggcggcag	tctgcccgcg	1800
cgagacgccc	ccgcggacta	caccgcggcg	gcaaagccaa	acgcaaaaac	tacctcaccg	1860
cgcgcaggcg	cctccccccag	gaccaacatg	gccacgacgc	aaggcctcga	cctgaggggc	1920
gtggcctggc	cgccgccagc	caacgggtgt	gcgcgcctgg	ccgcagccaa	taggaaggca	1980
tcgcgggctc	gggcgcaggg	agccgccgcc	ggggctgtag	gcgccaaaggc	catgtccgac	2040
gctgtgggtcc	cgaactccgc	ctcgggccc	gaccagggg	gccgcgggag	ggcctggggc	2100
gagctgctgg	gtaggtgggc	gcggcaggcc	gcgggagtgg	gcggcgctccg	gcccgggacg	2160
gtttcgccgg	ttccccgatc	ccttccccgc	agagcctccg	ccggctcgat	ccccggacgc	2220
cgcgcccggg	gggtgtgtcg	gggtgggcgc	ccggctgggg	cggcgcggct	gcctcggacc	2280
cggccccctc	tgcgcttggg	cggacgccc	ccagaccgcc	gcccgcgggg	cgctcccttc	2340
tttcccgaa	gccgccccg	ccggccgccc	gtcaggcgcc	gcctgggggtg	cgcggcctgg	2400
ggctccccct	ccgcagaggg	ccgcccctcg	ccaggcgtcc	ccgggctccc	ctgcctcggg	2460
ccctcctggg	ccgtcttccc	cggcgctccg	ggtggggccg	tctccgttag	tttcccgaga	2520
cctgcgccct	ggggaggagc	cccggcccct	cttcgggagg	gtgtcgttgg	tggttttctc	2580
cgcggcgctc	acctgcgcgt	cgggcccggg				2610

<210> 72

<211> 3076

<212> DNA

<213> Homo Sapiens

<400> 72

gctgggatta	caggcataac	atggccccgc	cctggccatg	tttttaactg	tgtttctcta	60
atagctaata	atgccgagca	tctttttatg	tgtttcttag	ccattagtag	atcttttttg	120
gtaaaatgtc	tttttttttt	tttttggtcc	atcttaaaat	tgttttttgt	tttgttttga	180
gacagggtct	cactttgttg	cccacgctgg	agtgcagtgg	ctcaatcatg	gctcactgca	240
gcttcgacat	ccctgagctc	aggtgatcct	cccacctaag	tttcccagag	agatgggact	300
acagggtgtg	gccacatg	ccagctaatt	tttgtatttt	ttttgtagag	gtgggggttt	360
gctatgttgc	ccaggcaggt	cttaaaacttc	tgaggctcaa	atgatcctcc	cacctcagcc	420
tcccaaagtg	ctgggataac	aggcatgaac	caccacaccc	agctaagatt	gttttttaaaa	480
atctttttct	tgagtttttg	gagtttttat	gtgttaggga	taccagtccc	ttatgaggta	540

82371.revisedsequence

tataattagc	aagtagtttc	tcccactctg	tgactgtgac	ctttcttttt	ttgaggcagg	600
gtctcactct	gttactcagg	ctggagggca	gtggtgtgat	catggctcac	tgcaacctgg	660
aactcctagg	ctcaagggct	cctcccacct	cagcctccca	agtagctggg	tctacagggtg	720
tgttattgtg	ccaggggtaa	tgttttaaat	ttttttaga	gataatgtct	ctacaaaaga	780
caccatcttt	gttgcctagg	ctggctctga	actcctggct	tcagggaatc	ctccagcctc	840
agcctcccaa	agtgcctggg	ttacagcatg	agccacatcc	agcctatgat	ttttcttctt	900
ttcttttctt	ttcttttttt	ttttttttga	gatggagtct	cgctgttgcg	caggctggag	960
tgagtgggg	cgatctcggc	tcactgcagg	ctctggcccg	cggggttcac	gccttttctc	1020
tgccctcagc	tcccagagtag	ctgggactac	aggcgcccg	cacatcgccc	ggctaatttt	1080
ttgtattttt	agtagagacg	gggtttcacc	gtgttagcca	tgatgggtctc	gatctcctga	1140
cttcgtgatc	cgcccgccctc	gggtctccca	agtgcctggg	tcgcaggcgt	gagccacggc	1200
gcccggcccc	agcgtatgac	ttcttaaatga	tgcttttgta	gtacaagagt	ttttaatttt	1260
aataaagtta	actttttttt	aaattgtaca	agcttttagt	gctgtgtcta	acaacttggt	1320
gccaaaccca	aggtcataaa	gctgttctct	tacgttttct	tttttttttt	tttttgagac	1380
ggagtctcac	tctgtcacc	aggctggagt	gcaatggcac	gatgtcggct	cactgcaacc	1440
tccgccaccc	gggttcaagc	gattcttccg	cctcagcctc	cggggtagct	gggattacag	1500
gcgcacgaca	ccacgccttg	ctaatttttg	tatttttgta	gagaagggtt	caccatgtta	1560
gttaggctgc	tttacgtttt	cttttagaag	ttttatattt	ttggctctta	tatttagttt	1620
gtgatccatt	gagttgattt	tatgtacgta	tgtatggctg	cgttcttttc	tttcctgtct	1680
tttttttttt	tttttttttg	catatggata	ttcaattctc	ctagctccat	ttaatttgaa	1740
atgattgggc	aggtactttt	gagcagtgc	agtacagagc	ggcactgcca	gcagactaca	1800
cgcggtagaa	agccgacctt	ggtgagcgtg	ttggtgctcg	acagtgaagc	gagaaaggat	1860
ggacgattac	ggagcgccct	cgctctccagt	taccgctttc	tggaacacc	atccgccggg	1920
gcggagctgt	tccgcccccg	tgcggtacta	cgactcccag	catgcacctc	gcagtcggcc	1980
ctcggtggaa	gcgggaaccc	aggaggacct	gggggtgtgg	cagcgaggaa	gggccgagcc	2040
acggactgtg	gggccgaaac	tcgctcccg	ccacctttc	tcgaggctgt	ggcctccg	2100
agagccgagc	gggccgcacc	gccggccgtg	cgactgcccc	agtcagacac	gaccccggct	2160
tctagcccg	ctaagcctgt	ttggggttgc	tgactcgttt	cctccccgag	tttcccgcgg	2220
gaactaactc	ttcaagagga	ccaaccgcag	cccagagctt	cgcagacccg	gccaaccaga	2280
ggcgaggttg	agagcccggc	gggccgcggg	gagagagcgt	cccatctgtc	ctggaaagcc	2340
tgggcgggtg	gattgggacc	ccgagagaag	caggggagct	cggcgggggtg	cagaagtgcc	2400
caggccccct	cccgcctggg	ttgggagctt	gggcaggcca	gcttcaccct	tcctaagtcc	2460
gcttctggtc	tccgggcccc	gcctcggcca	ccatgtcccc	ccagaccacc	tctgtgggct	2520
ccagctgcct	ggacctgtgg	agggaaaaga	atgaccggct	cgttcgacag	gccaaggtaa	2580
cacgggtgct	ggcacccctc	gtttgcagcc	tcaagatccc	tgaaagcggg	tttgcagtgg	2640
atttacccca	acagatgggg	agggactgag	cttgacaaa	gagccagaaa	tgactggaga	2700
atgcattccct	tgccactgct	gcaaggggag	aaaaaaggat	tgatcctcag	tgacaacccc	2760
tccctcatgt	ggcaggtggc	tcagaactcc	ggctcgtact	tgaggcgaca	gcagttggct	2820
caggatgcac	tgggaagggt	cagagggctc	ctccatagtc	tgcaaggtag	gcgggtcctc	2880
cccaggatgg	tcagttcccc	tcttccatag	ccagagaaac	atccgctcct	gcgtttttgg	2940
gatcgatata	attactcggg	gcagggagtc	ctgtttaagg	cacagaggag	actggagtgg	3000
aatcatcttt	gtacaggcaa	atccctctct	tccttacaca	ctcacagagt	ggcatttgaa	3060
aaatggtttc	caagat					3076

<210> 73

<211> 2567

<212> DNA

<213> Homo Sapiens

<400> 73

cacaccatct	cttgctccgt	gagtatcttt	gtctctctag	ctcctcttct	tctctcagta	60
catgtccctc	cttgactccc	gcctctctgc	aagggtgatt	tggtgcctc	agttggcctc	120
tccccctctg	catctctggg	tgggggtgtc	tctgcccgtc	tcccacccac	acccaccccc	180
ggtgtcccc	ttccccccag	caggacagcg	gctcaggttc	acgcacccca	cggcggggcg	240
gctgggcgca	cgcacgtcct	tgacacaaag	ccgcacgtag	ctgtacttga	gcacgtcgat	300
gagcgtgtag	agcggggggc	cactggccca	gcggcagcgc	gccagggtga	tggagctctt	360
gacgaagaag	agcggccagc	gctgtctggc	ccacgcgtcg	aagaagcggc	tgaactcggc	420
ccacgagaag	aaggcccgct	cccgcagctc	ctgctcctcc	tgccccgag	ccgtgccggg	480
tgggggctcc	ggccgctcca	tccctggggc	ctgcgtggag	gaggggagaa	cagggtggata	540
tcagacccat	tcccaccccg	ggtagctcat	ctactcctatt	cttggcctgc	cccgtcgggt	600
gctggtgcct	ctatcgagg	gggtagcccg	gggtcggacg	tgctgtttt	tctccaaata	660
tataaatatc	aacctccatc	ctatctttgg	cctcctccca	ccgccttatc	cctgggttcac	720

82371.revisedsequence

ttggagcctg	tcattcttgat	tcctaattcc	aactcgtctc	ctcctccgca	gatgtgaccc	780
ttaggtacag	ttggaatctc	tcctcccaaa	atagaccctt	taagctcaga	tgttccttaa	840
ggacatctcc	tcaaatgtgt	tctcaaattc	cagctaaaac	ctcctcccc	tccagctgtg	900
tctctcacc	aagagtaact	tctaactctc	gtattcatct	ggaactcctc	cttccatgtg	960
ccaacagtgt	gctgtaaccc	ctccaaagac	gtcccatctc	cagatgtgct	cccacatcca	1020
ggccacggac	ccctcaccgg	gtcacatgct	tcatgcacct	gtggctccgc	actccccaga	1080
tgtgcctctg	gcgtgcagct	gttgccccct	cccccgatta	tgaccctatg	gctcggcaca	1140
tgcagctgta	gctggggcct	ccctgagaca	ctctcatctc	cagatgtact	ccccacatgc	1200
agttatccac	gcttcgccta	cagggtgtgtg	ccccacttgt	ggctagttct	cctcgggaagt	1260
gtcaccagta	ttcacctgtg	gtccccctct	cctcagatgc	ggcccccagt	ccagctgtgg	1320
gccccctctc	ccagttacat	ccaccatccc	ccgcaatatg	catcttcgtt	ctagacatgg	1380
cccctcgtcc	tcggatgggc	tccttcaccc	cagatgctcc	ccccacgtcc	agctgcgcgt	1440
ctccccctga	gcagccccat	ccagcccgtc	cccgacgtc	ctactcccc	cctccccgcc	1500
cgctgcggca	ccttcacgac	ccgcccgtcc	acctagctgt	gcctctcccc	tccccaaagt	1560
gtgcaccctt	cccggcccctc	cccactcacc	taccggcccc	ggagcggcgt	ccacctccca	1620
caatgccccg	cgcccaggcc	tggcccggcc	cttgcctccc	ggatgccccg	cgcggtctcc	1680
cgctctctct	cccgcgctgc	ctcgcggggg	cgcttcacc	gattcctcct	ctttccctgc	1740
cagtcactcc	tcagaccctc	agccacaccc	gtcatccag	ggcgagggaa	agcgcgggca	1800
ttttcccggt	gtgctctgct	ggagggtcgc	ccccacttca	ccccctttcc	cgccctcctc	1860
ccattcggga	gactacgact	cccagtgtcc	tccgcgcgac	ggcggcggtg	cggacggtgc	1920
ccagggtccc	cccctaggct	ctgccccgcc	cccgcccga	gacgtctgct	cgcaaatgcc	1980
gtggcgcgaa	cttgggactg	cagaggcgcg	cctggcggat	ctgagtgtgt	tgcccgggca	2040
gcggcgcgcg	ggaccaacgc	aaggcaagtg	gggcccgtcc	caagcagatg	ggaggcggag	2100
ggcggcgggg	gcgccgaatg	cttggggcct	atgcttcgcc	atgtcggggg	gtctgcagag	2160
gagtggcggt	ggggacgctg	aggctgcga	gagcgcggtg	gagacggaag	agcgcgggct	2220
gcgggcccgc	ggagagtgc	gagagggtgc	tcccagaggg	aggggggcca	ggtagagggt	2280
agacgagaga	cagagacagt	tggacaggtc	ctctgagaag	aggccttgag	gtgcgagttc	2340
acctggaagg	gggagaggcc	aaatggaact	gagggcgggg	gcgggggggg	ggaaaactgt	2400
gtgggcccgg	ccagctggaa	atcggaaggc	ccccgagggg	ggcggggcta	tctgggaggg	2460
ggaggggctg	aaggggagcta	aggggcccgg	ccggggaaaa	gattgcgtgt	gggcggggcc	2520
acctggaagg	gggaggtgcc	aagggtgggg	ctggctggga	accggaa		2567

<210> 74

<211> 2278

<212> DNA

<213> Homo Sapiens

<400> 74

tcacagaagt	caaagctcag	gaaaagcccc	tcgagggttt	ttgtgcggca	gagggtgggtt	60
gtgggggtgg	attgtgcctg	ccacagtggg	ggggccctgc	agaccagat	aaaccttcaa	120
gtggccagaa	gcgggggatg	gctctgtctg	gtgctggggc	tgccatgggc	cgtgggagcc	180
agcagtgtgc	ccagctccct	caggggcccg	cccctaggcc	cttccgtcca	ctgggccaag	240
caccgtccct	gccccctcct	aggggcatgg	atctgacttg	agaggttgtg	agagcttaca	300
ggcgtctggc	cgctcggggg	gcctcagaag	cgtaggacgg	ctgcgactg	ccgggccgtg	360
ttcagccctg	gtctggcctc	ggcctctaga	ggaggctgcc	tgcgctccag	caggcccaac	420
ccagaacgtg	ggcgagctcc	cttcagcatc	cctgggcgga	aagagggatg	ggggctctgc	480
tgagagggca	gaatccgcgc	cgctccctcc	ttccttcccc	cgaccagcct	gtgacaaccc	540
cggccagggg	cgggggcctc	cgcaacaagc	tggcgtccac	ttcctggata	aggactcccc	600
ggcccactcc	ggaccagggc	tggggcgggc	tcccaggcgc	tacttccgct	ggcaccacac	660
cggaaaacac	gtctgcggcc	cgccccctcc	cccaaagcac	gaccactccg	cccgggcccc	720
tcgaggatcc	actcagggtt	acgacggggc	cgctcctctg	gtggcttgac	caccggctgg	780
tggagtgggc	tctggggccg	ccaggcgacc	agggcgagg	cgggggcgga	cagctcattg	840
ggagggggcg	cggggcacag	tgcggggctc	gccccacccc	cagggtgccc	ttccccgctc	900
tcgcctcgca	ggcaccgat	cggggccggg	aatcggtccg	gacctggcgg	tgggcgctgg	960
gaagaggatc	cacctccacg	tggcccggcc	cgccccgggg	gcgcagccag	ttccccggcg	1020
tactgcccc	ccttctcccc	gcttccgtcc	ccttctgcgc	aggcgccgct	ccggcccggg	1080
cctaggggtg	cttccgtggg	cggcggtctg	tgggctccgc	gccgggggtc	gagtcaccac	1140
aagccccggc	ccgagccggc	ggatgcccgc	gcgcagcggg	gcccagggtg	gcgcgcgcct	1200
cggcccccgc	ccggaacaga	cgcgccacac	ccagggcgca	gcagcgagcg	cggccgcggg	1260
agcgggagtg	ccggggacgg	gcgtagcgcc	caccggcccc	aggggttcggg	gcagagccag	1320
agcataggcc	aaggggccaag	ctcgggccga	gagcagtggt	gcagcgccc	gggggctgaa	1380
cccacggcgc	gctggcagcg	cgggcccagc	tgcgagagcg	gtcacgtcag	cgtccgttcc	1440

82371.revisedsequence

aggccgactg	gcagtctccg	ttctacatta	acgtcagcac	tcccgttaaa	aataatgcat	1500
ctctcccatg	ccaggaggac	ttaggtgctg	ctaaagacca	gccctccggg	tgctgcccagg	1560
ccggcgctca	cccgccacct	tcatcttccc	ttctcctttg	ccccaggaca	gccgaggatg	1620
tgtggttagg	ttccccctac	ccatggggag	gccagagggtg	ggaggctggc	ggcctgctcg	1680
gtctcagcag	accctcctag	tccctcagga	gaccttgacct	ttgccccact	tgctcgttat	1740
ccagcctggg	ccatgaagca	gaggacagtt	agggaccctg	agcacgcggg	ggtcacccccg	1800
gtgctcacc	ctccctgtgt	gtccgacctt	ggccctgcta	agatcctgtg	ttttgaattc	1860
tggcaagggt	tggatgaaag	ggcagggtc	cagaaaccag	ctcagacgtt	tgcttgggac	1920
ctgcatgatg	agtgggaatc	ggagggcacc	agccctgctg	tcccaggctc	aggcccccat	1980
ctgctcccca	ggcatgagc	cctgggcccc	catgccgtgc	agctcgcaca	tatgtggggc	2040
agagcagcca	ccctgcccc	agcagcagcc	gtccatcgtc	agacgtgatc	atttcttgag	2100
gcctcgagt	tgtaggggtg	tttgctgctc	ataacaaccc	acaggatggg	cacccccgct	2160
ttgcagatga	agaaaccaa	gcagggtgtc	agatccagtc	cttgacttcc	ctgagcctga	2220
ccctaccaca	cagctgtctc	ctattcggat	gcttatttat	tttttttccc	attacagt	2278

<210> 75

<211> 2401

<212> DNA

<213> Homo Sapiens

<400> 75

tcatgcctgt	aatcctaaca	ctttgggaag	ccaagggtggg	aggactgctt	gaggccagga	60
gttcaatact	agcctgggca	acacagcaag	atctcatctc	taccaagaaa	aacaaaggat	120
agaggagtca	actgaaaaag	atcccagtg	ctaaagctcg	aacaatttta	gcaataaaat	180
aaatacgc	gatataaata	catggctgaa	taaaataaact	ggggagaata	gaaaaaatatc	240
ctgtgcagaa	gaattccaag	taacttatat	agatatttta	cctttacctt	caaggaagta	300
gaacataact	tttcattcct	tcccaggatg	ggctaggcat	gatgacttcc	ttccaaagag	360
tacagaacgg	aaacagggca	gggggattaa	cagtggagaa	acctgaccaa	cgctactgca	420
gttaggtgat	caaggccaaa	acatcgacag	tgataaagca	tgctgagagc	acctttgatt	480
tgtgttagtg	aaaatcgctg	tttacctctg	taatcttctt	gccaaaaacc	cataatccca	540
gccccaat	tgagagaaac	attaggcaaa	tatcaattga	gaaatattct	acaaaataacc	600
tgactggtac	tcctgaaaac	tgtcaagggtc	acaaaaaaca	ataaaaagctc	aagaaactgt	660
cacagcccag	aggaacctaa	gatgtgacta	ctaaatggca	tgtagtacct	taaatgggat	720
cctggaacac	aaaaagagta	tcaggtaaaa	actaagagaa	tcagaataaa	gaaaggactt	780
ttgttaataa	tagtgtatca	atattgggtc	atcaattttg	acaagtgtac	catactaata	840
atgcaagggtg	ttaataagaa	acattcagca	tgagattttt	aggaattttc	tattattatct	900
tcacaatttc	ctgttaatct	aaatctctcc	taatgacaag	tttattttaa	aagtaaaaca	960
aaacttgaag	gaggggaggaa	acaagaagg	aggaaacatt	ggagacagaa	ccagcttggc	1020
aagttgacag	ataagggtctg	agaagtaggc	aggggaaaga	tcattcattt	caggcaatat	1080
ttttccattt	tacctgtata	agaaccatat	gagccctatt	tttcttttct	tcttttttct	1140
ttctttcttt	tctttttttt	ttttttttgt	agagatgaag	atttctactat	gttgaacagg	1200
ctgggtctcaa	actcctggcc	tcaagcaatc	ctcccacctc	agcctcccaa	agcatgagcc	1260
accatggtgg	gcctgtatga	aggaaacttt	taaaaaatgc	tacaagccgg	gtgcagtggc	1320
tcattacctg	taatcccagc	attctgggag	gccaaggtaa	gaggatcact	tgggcccaga	1380
agttcaagac	catcctgaac	aacatagcaa	gaccctgttc	tctgcttaaa	aaaaacaaaa	1440
acaagctggg	cgtggtggat	cacgcctgta	atcccagcac	tttgggaggc	tgagggtggg	1500
agatcatgag	gtcaggaggt	cgagaccaga	ctgaccaaca	tggtgaaacc	ccatctctac	1560
taaaaataca	aaaattagct	gggcacgggtg	gtgtgcgctt	gtgatcccag	ctactcagga	1620
ggctgaggca	ggagaatcgc	ttgaacccgg	gagacggagg	ttgcagtgag	ctgagaaagc	1680
agtgagctga	gatagcacca	ctgtgctcta	gcctgggaga	cggagtgaga	ctctgtttca	1740
aaaaaatcag	cctgcccagt	cagagcgctt	cagcgccgtg	ctcgggacat	cccgccttgc	1800
ggccagcccc	cgcgtgacgt	caccgcattc	cggctccgct	cctcccgcgc	cggcgccccgc	1860
accgcagtga	cagccagccg	ggcccgggtg	cgagaggaa	gtgcgggtccg	cgccaagccc	1920
gtccccgccg	acgcgggtc	cccgcggctc	gggtgacagc	gtcgcggccg	ccggacgcag	1980
cgcggggcag	gcgcgggcag	agccgagcgc	agcggaggct	ccggcggagg	cgcggggaaa	2040
atggctgatg	actttggctt	cttctcgctg	tcggagagcg	gtgccccgga	ggcggcgag	2100
gaggacccgg	cggccgcctt	cctggcccag	caggagagcg	agattgcagg	catagagaac	2160
gacgagggtc	tcggggcacc	tgccggcagc	catgcggccc	ccgcgcagcc	gggccccacg	2220
agtgggggtg	agtcagcgcg	gggcttggag	gggggtctcag	ggcgcgcacc	cgggggaccc	2280
cggccggggc	ccaggggcag	aggggaagaga	gcctgtctta	ggccacccgg	ggcaggagct	2340
gggagacgtg	gggaagaatc	ttcttggaga	tctccatgta	ggacttccga	gctggggatg	2400
a						2401

82371.revisedsequence

<210> 76
 <211> 2501
 <212> DNA
 <213> Homo Sapiens

<400> 76

ccagcctggg	ccgcagagtg	agaccctgtc	tcaaaaaaag	aacctactag	tctacatacc	60
acacttcctc	atccccatct	gagactatat	atattttttc	taacatgagg	caatgccaaa	120
aagaggggct	ggtgagtgaa	agtaagaaca	gaaagacatg	gaggcaagtc	ttatagaata	180
atagccaaca	cttaaactta	cacttaacag	cgatgtaggt	attggttcaa	acacattaaa	240
ttcatttaat	ggtccttaca	tgtctatgta	tttggtgatt	attatcctta	ttattcacat	300
tgctgagtg	attatttctgt	tctcatgatg	ctgatagaga	catacccgag	actggataac	360
ttattaaaaa	aaaaaagggt	taatggactc	acagttccac	gtggatgggg	agtcctcaca	420
atcatggtag	aaagcaaaaag	acacgtctta	catggcagca	gggaagagag	agaaatgaga	480
accaaaca	aggggtttcc	ccttataaaa	ccatcagctc	tcatgcgact	tattcactac	540
catgagaaca	gtatggggga	aaccaccccc	atgattcaat	gatctaccag	gtgcctccca	600
caacctgtgg	gaattatggg	agctacaatt	ccagatgaga	tttgggtggg	gacacagcca	660
aaccacatca	ctgaggaaac	tgagttatag	ggagattagt	aacgccaac	acagctggt	720
ggtggtggag	ccaggcagtc	tgactctagg	gtctggactc	tgaactgcat	catgctgcca	780
agaagttcct	cattttttcc	tctctctaag	tttcccttat	tcccctacag	tcattccttc	840
aacagcattt	ccttcaccat	cttttctact	tctactatat	aattaatttt	ttcttcttgg	900
tcccaaattc	caacgtgcaa	atgcagccct	atatacccta	attcatcttt	accttttagac	960
tttcttccaa	tgtttctact	tcattccatt	ttaaatttat	ccatgagatg	cctattttaca	1020
agctgtaacc	atcatgaagt	gaatgaagaa	taatacctac	tactgtacaa	tagaattcca	1080
agagtataaa	taggagttat	ggctttctga	cttgaaacta	aatacttgat	acttgatttt	1140
gctgtctgag	atcaatctga	aaagtaataa	taatcactaa	catttggtga	gcatcaattg	1200
tgggccaagt	gtcattttcaa	tcaactctgt	catattaact	catttcatcc	tacaacaacc	1260
cgttgaggga	agttctgtta	ttctgtttta	cagttgagga	aacagaggca	tagagagctt	1320
aagtagtttg	cccagtagat	agccagaaga	ggagccagga	tgggtctcgg	gcagtttaac	1380
agcacagtctg	aagtctttaac	cactatgcca	acagcttttt	ggtcctacac	atcccatggg	1440
aagaggaaaa	taaaaaggta	tctatttgta	taccttttta	tttctgatat	aagaagcaga	1500
attcctttca	catgacctat	gtctatttaa	tacgtcattt	tgaacttac	caataaaatt	1560
tccaagcgc	cagaaaactg	ttagtggctt	tttccatttc	tctctatttt	tttttggtgct	1620
actaattttg	cttctttccc	tcagaaggct	gccggaatag	taaacattca	ctgacatgtc	1680
ataattactg	gaaaatgggc	actggaaaat	cacattgtaa	ttaattcaaa	gcatgttttc	1740
caaatgtact	actttaaatt	ggagcttata	tcataatcca	aggaaaacct	tgtgtgtgta	1800
ctgttcccac	attgctcagc	ctgggatatc	caggagtaat	tcaccttgcg	cctgcctcca	1860
gaccatcttc	catggaagg	ggtgaccctt	tgctcttggg	caaccactat	ttctaagctg	1920
ccaacattac	tcttgcatia	tcaacattct	aacttcatgg	gaagggctgt	ggtgagtttc	1980
tggaatgtga	ataggaagtt	gtttttctaa	acagcctgac	actgagggga	ggcagtgaga	2040
ctgtaagcag	tctgggttgg	gcagaaggca	gaaaaccagc	agagtcacag	aggagatggg	2100
gagtttattt	ttttctgcat	gggaagtggg	tgaagtgaag	tggagtggta	tggagttaaag	2160
tcaggcaggt	aaaggttcag	aaagttagga	acagcgatag	ccatggagtt	ttatgttgaa	2220
ttgcctatta	gatitttgta	gtacttttaa	actgtctgtc	cactttgacc	ctcccaacac	2280
ccttgtgagt	tgaggttgct	atttctattt	tacaaaataa	gccatcggtg	tttacagagg	2340
ctgtgtttta	tctaagcttc	actgttaggc	tacatgatgt	tgggatctgg	ggcctgtcct	2400
ctggctccgc	agctgctggt	cctcctacta	gaatttatag	gggctctctg	agaatagatc	2460
atggtaaacc	tgtcacccca	ttttccaaga	ctgtacttct	c		2501

<210> 77
 <211> 2501
 <212> DNA
 <213> Homo Sapiens

<400> 77

cctgggtcct	ctcttccagc	tcccaaaatg	tactctattt	ttatctgttt	cacgaacgct	60
ggtccagata	gtcttccatc	ccccactgac	tgtagaagt	gactctcagc	ttttgtccat	120
ctcgaagttt	ctgtgctcag	tgtgcctctc	agactaaagg	cttccttttg	gaagccccga	180
ctctcgcttc	tcaggacaga	gatccagggg	ttgggggagg	aaaaggttga	ccagaagcca	240
tagcggagca	gggagagaga	gtgtgaaaga	cagacccgcg	gccaggctcc	cagttctcca	300

82371.revisedsequence

gctcgtagag	ggcccaagt	gccgctataa	tctgaaagag	cagatatcgt	aatcccatag	360
tacttcctat	tggctgcagg	acacagttct	gtcctgacac	tgaattttgg	gtgtgtcagg	420
gttctgggaa	ttcacaaacgc	tcacaacttg	tgaagcagct	gtggggtggg	ggatggggag	480
ggtttcagca	gaggaagtga	ggtcagtcaa	taattgatgc	ctgtctgagc	ttttagccat	540
tatctcccc	agcctctatt	cctgtcaaaa	ggtggggcgg	ggcaggagga	gggggtccctg	600
gctcatcttg	tagaatcccc	atatttagagt	aagacacctt	agagggtctac	tcctgtcttct	660
aatacccacg	tctttccaag	tgtctctgag	gccacccccct	ccccagcctt	ttcattttatt	720
catttaatta	acgaacgcct	tcattgaggg	cctcctctga	gtcagggtca	gccagccagc	780
atctttgcta	tgagctgaga	taagcatcat	ttccgtctat	tctcacaacc	accctatgag	840
gctggcacgg	tttactatgc	ctatttagca	gatgggggac	tgaagcatgg	agagggtgtca	900
ctagcctacg	gtaacacaac	cagcctgcat	tcctagtagg	tagtttgact	tcagagtctc	960
tgtggataac	caggaggcta	ggactaagac	cagagtccctg	cagggtactta	gatgggttggg	1020
gcaaagcagg	gcagtgaggt	cagtgtctccc	agcctgtgca	ggagcatcag	gaagagtctg	1080
tgtccccctc	ccctgcccgt	atgaagccct	tctgtctccc	tccccagctg	ccttgtgtca	1140
gcagagtctc	agggaggctc	cattccccac	ctctatctaa	agctccattt	gctgggggtgg	1200
gggcccctgcc	tggaaagggga	aggtccaagg	ctgtctcccag	cgtgtccctc	catcctgact	1260
gtcccctggcg	gggctgggggt	gtcctttgtca	cccagctgca	caacggccag	gaaggggtca	1320
aaccatcctc	agggctaacc	caaggccgtc	ctctgggcct	gtataccccct	gtgctgagtg	1380
cggatcggga	gaggctgctg	aagacaggag	gggacaaatg	ggggacgaag	gggcccagagg	1440
gaggggactg	aaggatttgg	gccaagtcgg	gagttcccga	gggcggagtc	aaaacgcac	1500
tggattttgc	tagccccaac	ctctgcccctc	attgtctgca	gcctcctaga	ccgaggaccc	1560
ccgggctgag	ggtggggtaa	ggataggtag	tgtcccctccc	cgtcccaccc	ccgcctgtcc	1620
cttccctcgg	ggcccccttc	cggcgccccg	attccaggcg	gccccctccg	tgctgccagc	1680
cgatccccct	ctacccccac	ccactactcc	ggccgcccaga	cgttgccctac	agtctcggct	1740
ctgtctccca	cggctgtggg	tccggacccc	acgggacccc	tatgggaccc	ccacaggacc	1800
cccacggcct	gagttccaagg	cccgcctccct	cgggtagggcg	gatgtgggag	gcccggcccg	1860
ggtgcggggc	agcgaccccg	gagctgcggg	cggctggggag	gggaggccgc	cctgaggggc	1920
tgggagcggc	gcgggggtgg	gtcccggctc	tgcagcccca	gcgaggggcg	agcggcggcc	1980
agtcggcgag	ctgggcaata	aggaaacgg	ttattaggag	ggagtgggtg	agctgggcca	2040
ggcaggaaga	cgctggaata	agaaacattt	ttgtccagc	ccccatccca	gtcccgggag	2100
gctgcgcgc	cagctgcgcg	gagcgagccc	ctccccggct	ccagcccgg	ccggggccgc	2160
gcccggaccc	cagcccgcg	tccagcgctg	cgggtgcaac	tgcgggccgc	cgggtggagg	2220
gaggtggccc	cggctccgcg	aaggctagcg	ccccgccacc	cgcagagcgg	gcccagagg	2280
gagtcgaggt	ccgcggacgg	gaccgggtgg	cgggcggcct	gacccccgct	tcagtggg	2340
cttccctcgg	gcggacccca	gagtcaccgc	agagtggctg	cgggaggctc	agtcaccag	2400
cattagaaa	gcaagctgct	cctggctgac	cacgcacagc	tcccatgacc	ctacctgaga	2460
cttggagggg	aatggacgag	actggactgg	aaatcagaaa	c		2501

<210> 78

<211> 2501

<212> DNA

<213> Homo Sapiens

<400> 78

tggctaattt	tttgtatttt	tagtagagac	ggggtttctc	catgttgagg	ctagtctcga	60
actcctgacc	tcagggtgatc	tgcccgcctc	agcctcccaa	agtgtctggga	ttacaggcgt	120
gagccaccac	gcctggccgc	taactacatg	tgttctatga	ggtgagggtcc	ttcccagacc	180
ctggaatcag	gggttgcaat	tagggtccaa	ataatgaggt	tggactacag	ataacccatc	240
tccttttcta	cctttgacta	gatccaagga	ctaaactcca	agaacccgag	catctgtccc	300
caaaactgaa	aggattggac	tagtcacccc	ttgtttccct	acagccacat	cccaggcacc	360
tggcccttgc	tttgtccaga	aattcagcta	taactccaca	catctgatgg	ccctttctgg	420
caagcaggca	tttccatcag	gaccctcagc	tgccagacac	atttactgga	ggtcacttat	480
taaacctggg	ctcaatttcc	acacagggag	gctactgaag	catcacactg	ggtctcccag	540
ccccttctca	tagaggaaa	atctctctgt	cctgcagggt	tggcagtcag	cgccaagtaa	600
aggggaattta	gctcttgccc	caagatccct	gcccaggaaa	ggtacttgcg	cctgctggaa	660
actttgggct	gaagtatact	cctttccaaa	aactcaggtc	tgatatttac	acaaagtctg	720
aaattaatgc	agagaaaact	tccaagtgtc	tggactggag	cagaaggctg	agaacaggaa	780
ggggctgggtc	cctgggtacta	gttttggttt	tttgggtggt	tttttttttc	ttgttttttc	840
tcacagaaca	gggcaagct	gagtgtccct	ggatgagtga	agcaggagga	ttaatcatgc	900
ccagtgtctc	tccactttaa	actgggtttc	ctgggaattt	gcaattgaga	gtggggagg	960
gtaagaatcg	tgggaaaagg	ctgatgggtg	tcagccaaat	tcaccttca	cgtgcccacc	1020
cttctacagg	cacatgcttt	ggggccatcc	acggctgcag	ccaccccatc	cttaggaagc	1080

82371.revisedsequence

accactggcc	ttcctttccc	gtacctggac	tcagcatcac	tcccagcctc	ttggagatgc	1140
agccttcatt	cagcacacag	ctcagctctg	agttctgttt	ttgtccctag	atgtctctgg	1200
ggtcacctac	tactccctgc	ttggtggccc	aggcccatcc	ttctccactc	ttgcacctct	1260
tttagcagaa	aaggagttag	aatggatatt	tccatggggc	gtgtgtgcac	tcccggctac	1320
ccctgacagc	tctactcaga	gctaccctcc	ctcctggggc	ttcttatgtg	ttctaaggct	1380
gaggcaggaa	gactgtgaga	tcaggtgaca	ctcaacagtt	atgatcgggtc	ttaagattaa	1440
cagtcctggc	cgggcgcagt	ggctcacgcc	tgtaatccca	acactttggg	aggccgaggc	1500
aggcagacca	cgagatcagg	agatcaagac	catcctggct	aacacagtga	aaccccgtct	1560
ctactaaaaa	tacaaaaaat	tagccaggcg	tggtggcggg	cacctgtagt	cccagctact	1620
caggaggctg	aggcaggaga	atggcgtgaa	cccaggaggc	ggagcttgca	gtaagccaag	1680
attgcgccac	tgcactcccg	ggtgacagag	cgagactccg	tctcaaaaaa	aaaaacaaca	1740
acaacaacaa	aaagattaac	actccttcta	cttccaaacc	taatacaaaag	ggacattgcc	1800
tagtgattaa	gagaattcat	tcattcaaca	aatacttgtt	gagcacctac	tatgtgccaa	1860
gcactgttct	aggcaccgga	aatacagcag	tgagaaaaac	caaaaaaact	ccctgccctc	1920
atggggtgta	tattcaagta	gctgaaacag	acagtgaaac	aacaaaaaag	gacaataatt	1980
tcaaataata	atgatgctat	cggccagggtg	tggtggctca	tgctataat	cccagcattt	2040
tgggaagcca	agtcaagcgg	attacctgag	gtcaggaggt	caagaacagc	ctggccagca	2100
tggtgaaacc	ccatctctac	taaaaataca	aaaatttagc	agacatgggtg	gcacacacct	2160
gtaatcccg	ctacttgga	ggctgacgca	ggagaattgc	ttgagcccgg	gaggtggagg	2220
ttgcagttag	ccaagattctg	acaggcccttc	agcaccactg	cactctagac	tggctgacag	2280
agcgagactc	tgtcaaaaaa	aaaaaagcta	taaatagact	ttaacagggt	aacatgatag	2340
ggagggagg	ataggggagc	aggggtggtca	aggaaggac	atttaaacag	gctagaatga	2400
caatggccag	cgaggggaaag	atccagaagt	gtgtgctgga	agaagaaaga	gcaagcacia	2460
aaccttagg	acaaaaatcag	ctcgtgtggt	caaggcacag	c		2501

<210> 79

<211> 2501

<212> DNA

<213> Homo Sapiens

<400> 79

tgtttctgac	ccctggctgc	agcctaattg	gccgactgct	ggacagcgg	cctgagtcct	60
gtttgaattg	gtgctgcccc	gacatcctct	gacctcagct	aatgatcctg	cctgccgagg	120
gcagacagg	ctctgcaacc	ctatgggtgg	taggggtggt	gatgagagga	gaggtagtct	180
cacttgacac	gattttggtg	tatggttctg	tcttttgac	tctttcaaca	gaggtctgtc	240
cagttccctc	tgcaagtgtg	gggagggggg	ggtgcaggac	tatgaggtaa	ctgtgagaag	300
aggggctcca	gcagaaccag	ggtccaatgg	ccttgaagag	atggctgggg	acagctggac	360
tcattacgtc	tactcctaaa	tggaggaaac	gacccctcag	ctacacagca	cctgagccag	420
aatgtcacca	tgggtgctgct	ccacaggatg	acagctacct	ggtttgtgag	ggccccattt	480
ctagggacag	ctacttcatt	ctgccccccc	agagcagcaa	gcaacaaccc	tatgccagga	540
ggccaattgg	cacgtcaagt	gccagctcca	atcgattgat	agtagctgcc	tggctctgaa	600
aggcagctgg	gatcgattca	ccatgctgcc	agcacacaga	tggaccagc	ggtgggtccc	660
gcagtgaagt	cttgcccttg	gccatttcat	tttctttgtc	ctggccaagg	aatgattgga	720
tgaacacact	ggactcccaa	tatgggtgga	taagacaaga	gtgtctgggtc	acacccctcc	780
accactcata	agcatgggtg	tgggcagttt	ggttccccag	gcggccttgg	agaatgcaat	840
gagccgagga	actggtcatc	tccagggtga	tccagggcag	gaaaggatga	cagcatgcgt	900
gagccagggt	cactggctaa	gaagtcatct	caggacctcc	ccctagaaaa	gcccactggg	960
cagcatccct	gctggttccc	ccctacacca	caaggttacg	cagagctggc	ggaggggtcat	1020
ggtccctactc	atgtcagggtg	ctcttaatat	ggcaaggaaa	tgtaacctac	gtgaatctca	1080
acaggcagtg	aagcaccgtt	tcttcctgac	tccaggtagg	gtgaagaaaa	tgggacagta	1140
gtacgggggtg	cgggcataaaa	cgcacaactc	tgccctccca	gacgcagagc	tgtggggctg	1200
tgagaatgcc	aggaggaggt	aagaaaagggc	ggccccatgg	ggggcctgca	gggtgggaca	1260
agcccaagag	gtctctacat	ccaggcctgg	tgggggaggt	gagccccctg	tttaccgagg	1320
gggtcccttc	ctgccccctg	aaatactgca	gctcctacct	ccatcgcttc	cccgtgctgg	1380
ggaccaggg	gcgtgaggat	gagagagccc	ccaggcccca	gggtcagacg	actgtgttca	1440
agcaagttag	aacctctctg	aggctgtttc	ccaactgtaa	aatggggata	gcagcagaac	1500
tctctctcgc	ggcttgctg	aagaatacaa	ttcgatgtcg	acaggaggga	gcggcgcgca	1560
gcgcgcagcg	agtagcaggc	gctgaagaag	gatacctgtg	aactgggagt	ggtggcggag	1620
gctacgcggc	cagagtccgg	ggaagggggc	ccggctctgc	cagtccctgc	tcggggctgg	1680
atggctcggg	gatgttctcg	taagtccggc	gggaggggag	gggtcccgcg	accctgccac	1740
cgcgcgcgca	gagggttcggg	cagggtgcggg	gccgcggccc	ctccgcgagg	gggcccgtca	1800
tccgcgggga	ctgacatccc	ggaggcccaa	tggcaagccg	tcactctccg	gcatccgccc	1860

82371.revisedsequence

aatcggcgcc	ggttgccgtg	ccgcgccggg	tctctcgacc	aatgggaaaa	tttgctgtca	1920
gatggggcgg	ggcggagatt	cgcgctcgcc	gccccgtccg	ctttgcgcac	gggccgcgtg	1980
agggcgggag	ggcttgcccc	gggtctcggg	ttgcgcgctg	ggcctggagg	gagggggcgg	2040
ccccgcacc	ggtccgagtt	gcggcccgct	ggactgcgac	ccgcgcccg	ccgcaccgcg	2100
ccgcgccctg	ggaacgccgc	tccccgcgcg	ccaacggacc	cggggaagcc	cttctgggggt	2160
ccgaggccgc	gctgcggggc	cgccccacgt	gcgctccagg	taagcctgag	ccagtgggcg	2220
gggtgtggga	cccggggctg	gggcctcggg	tcggagccgg	gactgggggc	ggggctgcag	2280
atatgggacg	cattccgggc	agcgggtccg	acagggtcct	atccctggag	tcgagatccg	2340
ggcgaggggtc	tgggcccggac	gtcggagcca	atctccgccc	cacccgcgtc	ttgtccgcgc	2400
gctctgcggc	gtccgagacc	ccgggcccgg	gggggcgggt	ctctttgtgc	gtggccttgg	2460
ggccctaccc	taccctgccc	ggcgtcttgc	actgagcact	c		2501

<210> 80

<211> 2501

<212> DNA

<213> Homo Sapiens

<400> 80

acagatgacc	gaggggctcc	cagccccgga	ggtggaaatc	cagcagggat	ttccaaggcc	60
tagtttgag	ggctccagga	tcgttcctag	atcctgggtc	tgcagccttg	acaaggggaa	120
ggagggaggc	agcagaagga	gggcagaaca	atccatgcc	ggctgtgatt	tgccaagtga	180
ccatctggga	agaatgggct	ctcagaccag	ggacaggag	cagaggcaag	cccgcattctg	240
ccctggttgc	agaacccgga	ttcagactca	gggccccgat	ttctgccttg	atcgctccac	300
tgggcggagg	agtgactgtg	gacacatcca	gggttctctc	caagtcggct	tcctcatctg	360
ccaaatagag	accgcagacc	accagctccc	aggcagggtg	tactcttccg	gccccctcca	420
aggcaggagg	gccaggcgta	ctcgagacac	aggtgtgctg	ggggcccagg	tgggccagcc	480
agcagcatcc	tgcagggtaa	tgggagcagg	tgggcacccc	gaggctggca	gtaaacactg	540
gctatctgcc	cccaggctcc	caggaggggt	cttgggcctc	acctcctccg	gccggaacag	600
gaaagcagct	ccaggcagct	gggtccacaa	aaatctccgt	tccctgaggt	ctcagaggca	660
gtggcccagg	agcatctggt	caccttcggg	aaaaaccggc	ttggcaaagg	ctcccccgag	720
ggcacgcgtt	tcccggagag	tgaggcagga	cctaaactct	tccgttaaca	ctacattttt	780
cgcatttctg	cagtgtttgc	actctcaggc	ccccaccatt	ccccgcattc	cttagggaga	840
agttctcgac	gtcccaccct	ccctggaagg	gtgctgctcc	cagagacctt	caggccaatg	900
gccaatctc	agtgccctca	ggggagaggg	gggtgcagaa	aaacagcctg	ggtcacaaaa	960
gaggtgcgag	ggctgtgaga	tcccggaggc	accgacggga	agcgagacgg	agaacaggag	1020
ggcaggacgg	gctggaggtg	ggggatactg	cagatggagg	gagccacggg	gggggagggc	1080
gtggacctga	ccgtcctggc	acaaggcggt	cgggtgcaga	cctccaggcc	ctccgggtta	1140
aggtgccgcc	cagagccctc	aggccggggg	cgcacggaaa	ccacaggcag	ggtgcgcgtg	1200
gagggacggg	gaaagcgggg	cgggttgggg	aaggcgcccc	gggaacctga	acctcccacc	1260
ccgcctcagt	ctcgaccact	ccttaagccc	cacccccgcc	caggtaaggc	gcagtccacc	1320
cccattccca	gtagattaac	gcacagggtg	gggcgcgctc	gggacatagc	tgcgctaggg	1380
gacagcgcg	ccagcccagt	cgcgggggcg	aggagcaggg	cggggcccag	caggaaacca	1440
gctttgttag	cgatgtctcc	cgtgagccac	gcgccacgcg	tacgcgcttc	ctcaatgggg	1500
ccgggcgtgg	agccgcgccc	tgcgcgattg	gccaaacggg	tggcccacga	ttggctgaga	1560
ccctggcccc	cgctcctcgt	gccccaggag	gggtgggctg	gggtgtgggc	tgcgcggcgc	1620
gtgctgcccc	cggggatctt	gcgcgcctcc	cgaacagccg	tgttgtcgcc	agggccgcgc	1680
cttccctccc	acagcgcgcg	ctgcgcgtgc	gaaggctctg	cggctcttgg	gactggcggg	1740
gctgcgcgcg	gggttagggg	gggggtacgg	gaaggctcaa	cccaggacct	gcgtaccttg	1800
ctttgggggg	gcactaagca	cctgccggga	gcagggggag	caccgggaac	tcgcagattt	1860
cgccagttgg	gcgcactggg	gatctgtgga	ctgcgtccgg	gggatgggct	agggggacat	1920
gcgcacgctt	tgggccttac	agaatgtgat	cgcgcgaggg	ggagggcgaa	gcgtggcggg	1980
agggcgaggc	gaaggaagga	gggcgtgaga	aaggcgacgg	cggcggcgcg	gaggagggtt	2040
atctatacat	ttaaaaacca	gccgccttgc	ccgcgcctgc	ggagacctgg	gagagtcagg	2100
ccgcacgcgc	gggacacgag	cgctccacgc	tccctggcgc	gtacggcctg	ccaccactag	2160
gcctcctatc	cccgggctcc	agacgacctc	ggacgcgtgc	cctggggagt	tgcctggcgg	2220
cgccgtgcca	gaagccccct	tggggcgcca	cagttttccc	cgtcgcctcc	ggttcctctg	2280
cctgcacctt	cctgcggcgc	gccgggacct	ggagcggggc	ggtggatgca	ggcgcgatgg	2340
acggcggcac	actgcccagg	tccgcgcccc	ctgcgcccc	cgctccctgtc	ggctgcgtg	2400
ccggcgggag	accgcggtcc	ccggaactgt	tgcgtgcgag	ccggcggcgg	cgaccggcca	2460
ccgcagagac	cggaggcggc	gcagcggccg	tagcgcgcgc	c		2501

<210> 81

82371.revisedsequence

<211> 22
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> primer

<400> 81

aatcctccaa attctaataa ca 22

<210> 82
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> primer

<400> 82

aggaaaggga gtgagaaat 20

<210> 83
 <211> 22
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> primer

<400> 83

ggataggagt tgggattaag at 22

<210> 84
 <211> 22
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> primer

<400> 84

aatcttttt caacaccaa at 22

<210> 85
 <211> 22
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> primer

<400> 85

aaccctttct tcaaattaca aa 22

<210> 86
 <211> 21
 <212> DNA
 <213> Artificial Sequence

82371.revisedsequence

<220>
 <223> primer
 <400> 86
 tgattgggtt ttagggaaat a 21
 <210> 87
 <211> 22
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> primer
 <400> 87
 ttgaaaataa gaaaggttga gg 22
 <210> 88
 <211> 19
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> primer
 <400> 88
 cttctacccc aaatcccta 19
 <210> 89
 <211> 18
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> primer
 <400> 89
 tgtttgggat tgggtagg 18
 <210> 90
 <211> 23
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> primer
 <400> 90
 cataaccttt acctatctcc tca 23
 <210> 91
 <211> 22
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> primer

82371.revisedsequence

<400> 91
 ttttagattg aggttttagg gt 22
 <210> 92
 <211> 22
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> primer
 <400> 92
 atccattcta cctccttttt ct 22
 <210> 93
 <211> 18
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> primer
 <400> 93
 ggaggggaga gggttatg 18
 <210> 94
 <211> 22
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> primer
 <400> 94
 tactatacac accccaaaac aa 22
 <210> 95
 <211> 19
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> primer
 <400> 95
 ttttggaat gggttgtat 19
 <210> 96
 <211> 21
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> primer
 <400> 96

ctacccttaa cctccatcct a	82371.revisedsequence	21
<210> 97		
<211> 22		
<212> DNA		
<213> Artificial Sequence		
<220>		
<223> primer		
<400> 97		
ttggtgggag tttttaagtt tt		22
<210> 98		
<211> 22		
<212> DNA		
<213> Artificial Sequence		
<220>		
<223> primer		
<400> 98		
caaattctcc ttccaaataa at		22
<210> 99		
<211> 22		
<212> DNA		
<213> Artificial Sequence		
<220>		
<223> primer		
<400> 99		
gtaatttgaa gaaagttgag gg		22
<210> 100		
<211> 22		
<212> DNA		
<213> Artificial Sequence		
<220>		
<223> primer		
<400> 100		
ccaacaacta aacaaaacct ct		22
<210> 101		
<211> 20		
<212> DNA		
<213> Artificial Sequence		
<220>		
<223> primer		
<400> 101		
ggagttgtat tggtgggaga		20
<210> 102		

82371.revisedsequence

<211> 21
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> primer

<400> 102

taaaacccca attttcacta a 21

<210> 103
 <211> 22
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> primer

<400> 103

tttgtattag gttggaagtg gt 22

<210> 104
 <211> 22
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> primer

<400> 104

cccaaataaa tcaacaacaa ca 22

<210> 105
 <211> 22
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> primer

<400> 105

gatttttggg gaggaagtta ag 22

<210> 106
 <211> 22
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> primer

<400> 106

aaaactaaaa accaaaccca ta 22

<210> 107
 <211> 20
 <212> DNA
 <213> Artificial Sequence

82371.revisedsequence

<220>
 <223> primer
 <400> 107
 tgggggtagt ttaggatagg 20
 <210> 108
 <211> 25
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> primer
 <400> 108
 cttaaaaaca ctaaaacttc tcaaa 25
 <210> 109
 <211> 21
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> primer
 <400> 109
 tttttgtatt ggggtaggtt t 21
 <210> 110
 <211> 24
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> primer
 <400> 110
 cccaactatc tctctcctct ataa 24
 <210> 111
 <211> 25
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> primer
 <400> 111
 attagaagtg aaagtaatgg aattt 25
 <210> 112
 <211> 19
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> primer

82371.revisedsequence

<400> 112
 tcaatttcca aaaaccaac 19
 <210> 113
 <211> 22
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> primer
 <400> 113
 gggatgggtt attagttgta aa 22
 <210> 114
 <211> 22
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> primer
 <400> 114
 ccttcacaca aaactacaaa aa 22
 <210> 115
 <211> 22
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> primer
 <400> 115
 taattgaagg ggtaatatg gg 22
 <210> 116
 <211> 22
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> primer
 <400> 116
 aaaacaaaa ccaaaactaa aa 22
 <210> 117
 <211> 22
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> primer
 <400> 117

agtggaatttg gagtttagat gt	82371.revisedsequence	22
<210> 118		
<211> 22		
<212> DNA		
<213> Artificial Sequence		
<220>		
<223> primer		
<400> 118		
aacaaaataa aaacttctcc ca		22
<210> 119		
<211> 22		
<212> DNA		
<213> Artificial Sequence		
<220>		
<223> primer		
<400> 119		
taggggaaaa gttagagttg ag		22
<210> 120		
<211> 18		
<212> DNA		
<213> Artificial Sequence		
<220>		
<223> primer		
<400> 120		
cccattaacc cacaaaaa		18
<210> 121		
<211> 22		
<212> DNA		
<213> Artificial Sequence		
<220>		
<223> primer		
<400> 121		
attttagttt gtgaaatggg at		22
<210> 122		
<211> 21		
<212> DNA		
<213> Artificial Sequence		
<220>		
<223> primer		
<400> 122		
tcttaaccaa taaccctca c		21
<210> 123		

82371.revisedsequence

<211> 22
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> primer

<400> 123

gtgggttttg ggtagttata ga 22

<210> 124
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> primer

<400> 124

taacctcctc tccttaccaa 20

<210> 125
 <211> 22
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> primer

<400> 125

taggatgggg agagtaatgt tt 22

<210> 126
 <211> 22
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> primer

<400> 126

acaacttatc caacttccat tc 22

<210> 127
 <211> 22
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> primer

<400> 127

tcccacaaaa actaaacaat ta 22

<210> 128
 <211> 21
 <212> DNA
 <213> Artificial Sequence

82371.revisedsequence

<220>
 <223> primer
 <400> 128
 aggttttaga tgaaggggtt t 21
 <210> 129
 <211> 23
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> primer
 <400> 129
 tttggagggt ttagtagaag tta 23
 <210> 130
 <211> 22
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> primer
 <400> 130
 cccaataatc acaaaataaa ca 22
 <210> 131
 <211> 22
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> primer
 <400> 131
 atacaacctc aaatcctatc ca 22
 <210> 132
 <211> 22
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> primer
 <400> 132
 agggagaagg aagttatttg tt 22
 <210> 133
 <211> 22
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> primer

82371.revisedsequence

<400> 133
 ggaagatgag gaagttgatt ag 22
 <210> 134
 <211> 22
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> primer
 <400> 134
 cctacaaccc taccctctaa aa 22
 <210> 135
 <211> 22
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> primer
 <400> 135
 ttagtagggg tgtgagtgtt tt 22
 <210> 136
 <211> 23
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> primer
 <400> 136
 caaacaacac ttctatctca acc 23
 <210> 137
 <211> 21
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> primer
 <400> 137
 ttatagggtt gagtttggga t 21
 <210> 138
 <211> 22
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> primer
 <400> 138

taaacaaaca acaaatcttc ca	82371.revisedsequence	22
<210> 139		
<211> 22		
<212> DNA		
<213> Artificial Sequence		
<220>		
<223> primer		
<400> 139		
tgaaaatgaa ggtatggagt tt		22
<210> 140		
<211> 22		
<212> DNA		
<213> Artificial Sequence		
<220>		
<223> primer		
<400> 140		
ttaaaaccat ataatccctc ca		22
<210> 141		
<211> 22		
<212> DNA		
<213> Artificial Sequence		
<220>		
<223> primer		
<400> 141		
tatgttttggg tttgttttga ga		22
<210> 142		
<211> 22		
<212> DNA		
<213> Artificial Sequence		
<220>		
<223> primer		
<400> 142		
aaccccatca cttttatttc tt		22
<210> 143		
<211> 22		
<212> DNA		
<213> Artificial Sequence		
<220>		
<223> primer		
<400> 143		
gggtgtagaa gtgttttaggt tt		22
<210> 144		

82371.revisedsequence

<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> primer

<400> 144

tttctcccct tacaacaata ac 22

<210> 145
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> primer

<400> 145

tccccttcca actatatctc tc 22

<210> 146
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> primer

<400> 146

tgagagtgtt ttagggaagt tt 22

<210> 147
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> primer

<400> 147

aaaaccaaaa cataaaccaa aa 22

<210> 148
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> primer

<400> 148

gattaggagg gtttggtgag at 22

<210> 149
<211> 21
<212> DNA
<213> Artificial Sequence

82371.revisedsequence

<220>
 <223> primer
 <400> 149
 aatggttgat gattttgggt t 21
 <210> 150
 <211> 22
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> primer
 <400> 150
 actctcttcc ctatacccct aa 22
 <210> 151
 <211> 24
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> primer
 <400> 151
 tgtagtaga gtttaggga ggtt 24
 <210> 152
 <211> 22
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> primer
 <400> 152
 acactaccta tccttaccac ac 22
 <210> 153
 <211> 22
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> primer
 <400> 153
 tttttgtttt tatggggtgt at 22
 <210> 154
 <211> 22
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> primer

82371.revisedsequence

<400> 154
 ttaaatatcc cttccttaac ca 22
 <210> 155
 <211> 23
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> primer
 <400> 155
 agttagaaga ggagtttaga tgg 23
 <210> 156
 <211> 22
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> primer
 <400> 156
 taattttcca ataccattt tc 22
 <210> 157
 <211> 22
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> primer
 <400> 157
 tgggtagtat ttttggttgg tt 22
 <210> 158
 <211> 22
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> primer
 <400> 158
 cctaaaaact ctctcatcct ca 22
 <210> 159
 <211> 23
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> primer
 <400> 159

agtggttag gagtatttgg tta 82371.revisedsequence 23
<210> 160
<211> 22
<212> DNA
<213> Artificial Sequence
<220>
<223> primer
<400> 160
aactccctcc atctacaata tc 22